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THE MICHIGAN FARMER.

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The attention of Breeders of Stock, Nursery men, Florists Seedsmen and Agricultural Implement Manufacturers, as well as those who wish either to buy or dispose of farms or farming lands, stocks, &c., is particularly called to the advantages which a circulation of nearly twelve thousand offers to them throughout the State

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Important Winter Work-Feeding-Manuring-Making Composts.

NUMBER 1.

A correspondent writes: "Can you inform me how I shall make the most of my manure this winter?"

To this question we have no other direct answer at present than to say, no, we cannot; neither could any one. Before answering such a question intelligently the following information should be supplied:

- 1. What amount of straw, cornstalks and hay have you to feed, and to use for litter?
- 2. What other kinds of feed have you, such as corn, bran, roots, and other articles of that kind?
- 3. How many head of horses, cattle, sheep and swine do you keep, and how long do you mean to feed them before selling any portion?
- 4. How do you keep them? how many will be housed; and how many will be loose in the yard?
- 5. What facilities have you for adding to barn yard manure by means of peat, muck, or other earthy matters?
- 6. Have you any means of keeping the liquid manure separate, or of saving it in any way?
- 7. Can you in any way protect the accumulated manure of the stables, the cow house, the sheep fold and the piggery from the effects of the weather or the washing drainage of rains?

Now, Mr. Correspondent, can you give intelligent answers to all these queries? When you do, direct information will be supplied to suit your particular case. Meanwhile, we have a few general remarks to make upon the important subject of saving manure, which is one of the highest importance, and at this season should be attended to as a department of the work of the farm worthy of the utmost care the farmer can bestow upon it.

As manure is at present managed on most farms, at least one half of the yield of the animals is totally lost; and the same proportion of the most fertilizing matter of the remaining half is wasted away by the exposure to which it is subjected before being applied to the land. The usual practice is to shake up

the loose straw bods of the horses and the housed cat-|its equivalent is necessary for a horse of that size. would be beneficial, if it were not that it is entirely pounds each. unprotected from the water which falls from the sur-The rain accumulates, if it cannot get out of the salts. If, as is usual, there be a channel for the water manure water has assumed. The treading of the of straw each day for litter. young animals aids in making the heap of straw and excrementitious matter, which are spread over the sumed by a single horse may be easily calculated for surface of the barnyard more retentive and more the seven severe winter months, beginning with Nosolid, but the trampling of the animals in such wet mucky substance all day long, is not very beneficial to them, and can hardly be urged as promoting eight hours per day, and when at heavy drawing or their growth. Even where such a yard is kept in the other labor, it is usual to give three feeds per day of very best manner, by constantly spreading over it oats or at the rate of 12 quarts. The rack is kept full of quantities of dry straw either for bedding or as a por- hay, and during the night it is emptied. In the morntion of the daily food of the stock, great waste must ing it is filled, but the horse being given his oats, does necessarily accrue. To diminish this waste ought not have time to consume much hay either then or in therefore, to be one of the chief cares of the farmer the middle of the day. We think therefore that ten at this season.

What is the amount of food consumed by a horse of ordinary size; and how much of this food is voided and how much used up by the aninal for his support are questions of some importance to those who would economize every particle of fertilizing matter 86 to 100. Pabet 60 to 100; and Schweitzer 371 to produced on their farms. When the amount of man- 100. The ratio given by Boussingault is most in acure made by one horse is known, then it is easy to cordance with the results of actual practice in feedcalculate how much each of the same kind of ing. This would therefore be feeding a horse at the animals on the same farm will yield, and the crop rate of thirty pounds of timothy hay per day. For the of manure may be as easily calculated as to amount 212 days therefore a horse of medium size would conof yield as any other crop. As we proceed with sume if fed well and worked every day 6360 pounds this article, which will not be concluded in this number, we hope to be able to give a fair and correct idea of this important production, and also of its value, and its intimate connection with the con-twelve quarts of oats and ten pounds of hay during sumption of food upon the farm.

working horse ought to have about eight quarts of ter of hay, and of oats 72 bushels. The money value oats and seven pounds of hay per day during the of this assuming the articles to be worth market price year. VEIT, a German writer of much eminence on experimental agriculture, is of opinion that a horse weighing about 1100 pounds needs to sustain himself without loss, 23 lbs of good hay for every 100 pounds of weight, and consequently 30 lbs per day or Money cost of keeping a sing le horze for 212 days in winter. 37 00

tle in the morning of each day, and then to shovel, In feeding horses one pound of oats is reckoned equal either out of the door, or through a window in the to two pounds of timothy hay, therefore if we feed side of the stable, the solid excrements which have to horses eight pounds of oats, each should get beaccumulated over night. If through the windows, sides fourteen pounds of hay. Our oats are reckoned each pile is left to be rained on, and to be soaked equal to one pound per quart, or 32 pounds per with the drippings from the eves until it is carted bushel. Besides this a horse uses for litter from away in the spring, if it may then be thought best to three to five pounds daily of straw. Boussingault take them away. If the dung is shoveled into the fed his horses at his farm at Bechelbronn, 33 pounds barnyard, it is generally submitted to the treading of hay per day or its equivalent in oats or other grain of the cattle which may be loose in the yard. This and cut straw. His horses weighed 1070 to 1100

On farms in this State the horses usually weigh from rounding buildings, and which is seldom conducted 900 to 1100 pounds; and they are usually fed when not out of the yard, by means of eave troughs and spouts. at heavy work, eight quarts of oats and as much hay as they can eat, say an armful or a forkful, or a rackyard, and soaks out of the manure all its soluble ful at a time. We have never yet met a farmer, who could tell how many pounds of hay per day his horses to run off, it takes with, it the very best of the manure, consumed, we have calculated it at from ten to as may be seen by the dark brown color which the fourteen pounds per day. With about five pounds

From these data therefore the amount of food convember 1, and ending with the last of May, or 212 days. In the winter season horses seldom work over pounds of hay is a liberal allowance with twelve quarts of oats. The nutritive proportions of oats as compared with the best meadow hay, is as 60 to 100, according to Boussingault; 5 00 according to Fresenius. Petri makes it 71 to 100. Von Thaer of hay; or, if fed at the rate 12 pounds of hay and eight quarts of oats for sixty days of the winter season, or while doing but little work; and at the rate of the remaining 152 days, the total or amount consum-It is calculated by There that a moderate sized ed would be of 2240 pounds or about a ton and a quarminus the cost of marketing, would be as follows. 1% tons of hay at \$10 per ton\$12 50

1	72 bushels of oats at 37% cts. per bush		_	
	Total Deduct cost of marketing	39	50 50	

with some data more reliable.

We have now given the amount of food consumed lbs, or altogether 5544 pounds, or at the rate of 26 tons. pounds per day. From this how much is the manure manufactured?

According to a German writer of much eminence, VEIT, who has paid great attention to this subject, a pound of dry food and litter supplied him. Both Thaer and Boussingault agree that this estimate is But during the time that a horse is nearly correct. not in the stable, of course there is a loss of his excrement. In the winter season the time that a horse is employed on working days is equal to one third and of the whole winter season, there would certainly be 60 days when he could not be out of the stable save to go to the horse-trough to drink. The manure made by a single horse during the wipter months would therefore be as follows:

152	days at wo	rk at third	52 pound loss whi	is per le at	r day1.7804 lbs	J
					-	

60 days while kept without work. Total manure produced by one horse in winter......8323 lbs

According to Block, another experimenter on this subject, the ratio is that a horse converts,

100 lbs of hay into 172 lbs of fiesh dung, 100 lbs of oats into 204 do do 100 lbs of grass into 43 do do

These measures or proportions all confirm the basis on which our calculations are made. Now in addition to the amount of dry food consumed by a horse, the water taken as drink, according to Boussingault is at the rate of 35 pounds per day, and we find that the amount of urine voided per diem is set down at has been followed in this by most agricultural writers. But, three pounds is only the the amount passed by interesting series of notes upon the agriculture of a man per day. 1000 to 1100 pounds will ordinarily pass about 20 or Scotland. During the autumn of 1854, we had the 21 pounds per day. Now amongst our farmers there pleasure of becoming acquainted with Mr. Russell, is no provision to save the urine, except so much of while he staid in Detroit. He had just come from it as the litter or long straw, with which the borse is Ohio and the National Fair on his roule west ward, supplied, may absorb. A liberal estimate would not and in company with Mr. J. C. Holmes, he went to make it over one third. deducted from the total production as above given visiting the farms of Mr. David Uhl and A. Y. at the rate of fourteen pounds per day for the sixty Moore. Mr. Russell is evidently a gentleman poswhole days in which the horse is in the stable, and sessing an intimate practical and scientific knowledge two thirds of fourteen to be deducted for the 152 of the agriculture of his own country, and the varilabor days; which altogether would make 2239 pounds ous papers which he has furnished since his return to be taken from the 8323 pounds given as the whole home to the Journal of Agriculture containing his

Or at the rate of about 17½ cents per day. This fresh production of a single animal, leaving it 6084 will vary as the market price of hay and oats fluctu- pounds. This manure if thoroughly taken care of ates. But we think it a pretty correct estimate, and and prevented from fermenting too rapidly, would at where it is wrong, let our practical men furnish us the end of the season be reduced in bulk and weight about one third. Or, we may reasonably expect that where manure receives the ordinary care given to it by a single horse during the season when he would by our best farmers, a horse will make about two be kept principally in the stable. To this may be tons of good fair ser-iceable dung. But the same aniadded half a ton of straw for bedding and litter, and mal if all provisions were made to save from loss his the whole weight of the material consumed by the liquid and solid excrements, while in the yard or horse will be hay 2250 lbs, oats 2304 lbs, litter 1000 stable, might be counted on to make at least three

On a farm where there are 100 to 120 acres of cleared land, there are usually kept at least 4 head of working horses, the year round. According to the above data, these four animals would consume from the horse will produce 2 pounds of manure for each first of November until the first day of June five tons of hay, 288 bushels of oats, and two tons of straw. This would be the products of 3 acres of grass land, and 6 acres of oats, of a money value of \$148. In return there would 152 days labor of two teams, to be reckoned at \$1.00 for each team without the service of the man, and twelve tons of manure if it had all been saved; but as it is usually cared for, there would probably be eight tons, or about sixteen fair two horse wagon loads. There would therefore hardly be enough of manure from nine acres to give a good thorough coating to one acre of land.

We shall not pursue this subject farther at present. In subsequent numbers, the manure producing qualities of cattle, sheep, hogs, will be severally taken up, and, generally with reference to the number kept on a medium sized farm, say 100 to 150 acres of cleared If any of our readers can aid us by their experience, or can make any suggestions on a subject so important as the economy of making and applying manure, we shall be pleased to have their aid. But let them bear in mind that facts and not speculation are what we want.

Agricultural Notes in Ohio and Michigan.

In the latest number of the Journal of Agricul-21 pounds. Boussingault, makes it but 3 pounds, and ture and the Transactions of the Highland and Agricultural Society of Scotland, we find a very We think that an animal weighing Ohio and Michigan by Mr. R. Russell, of Kilwhiss, There is therefore to be Ypsilanti, Ann Arbor, Kalamazoo and Schoolcraft,

observations upon Canada and the several States 400 acres, but many are as large as 1000. There is through which he passed, indicate him to be a calm, shrewd observer, biassed by attachment to no particular theory or opinion, and apparently able to judge, without prejudice, of the farming operations which be witnessed, giving due weight to the difficulties with which agriculture here has to contend when compared with that to which he had been accustomed. The length of the article compels us to divide it; the conclusion, which refers more particularly to Michigan, will appear in the January number.

"Left Cincinnati, Ohio, on the afternoon of 24th October, for Springfield, eighty miles to the northwest, where the National Agricultural Society held its annual exhibition. The country in the neighborhood is moderately fertile. The soil consists for the most part of a sandy loam, dyed into a dark hazel tinge, which is peculiar to all those soils upon which oak and hickory are the predominating trees in the forests. The subsoil is usually gravelly, but often mixed with clay. Indian corn and wheat are the principal crops which are cultivated; a few sheds for drying tobacco were seen as we passed along. The soil is genial to the growth of clovers, and it produces good pastures when seeded with those grasses that are natural to the land.

"Springfield contains a population of 7000 inhabitants, and is in a very flourishing condition. Agriculturists were attending this meeting from all parts of the Union. The Secretary had traveled from Boston, a distance of nine hundred miles, by railway; and some of the officials almost as far from the south and from the west. Some of the judges had come from Canada The greatest number. however, were from the neighboring States of Kentucky, Indiana,

Illinois, and Michigan.

"There was nothing shown but cattle, and the great majority were short-horns, for which the soil and climate of southern Ohio and Kentucky seem admirably adapted. I was quite astonished at the general excellence of the stock. Among the hundred and fifty short-horns that were exhibited, there were few animals that could be considered secondrate. I am not sure if the short horned stock was so uniformly good at Windsor [Eng] n 1851 though there might be some better enimals. One bull had been lately imported from England, and had cost the corn, would not yield more than 18 bushels of wheat. owners six thousand dollars. The animals were kept beamifully clean, for great care was bestowed in having them properly groomed. Shortly before a fine ox was led into the ring, I saw three negroes rubbing him down most vigorously with their hands, crops of wheat. to put the last polish upon his sleek skin. From the appearance of the animals on the show-grounds, as well as of the large herds that I saw in the meadows in southern Ohio, I am led to believe that the blue grass occupies the ground and puts all the soil and climate are well fitted for maintaining the shape and qualities for which this breed is distin-guished. Here there is no evidence that it is dete sent down the Mississippi to New Orleans; for this riorating; but the extent of land capable of yielding is a scarce and high-priced article in all the States fine pasture is comparatively restricted in Canada south of Tennessee. and the United States.

field, I had many opportunities of conversing with that I saw here were noble specimens of humanity. the farmers of Kentucky, and obtaining a knowledge Exemption from severe manual labor for several geof their systems of hu bandry. Kentucky is a slave nerations, it would seem, has not been without its state, and the size of the farms on the best lands is influence on the Anglo-Saxon constitution. All that larger than they are in Ohio. The common size of the Kentuckian usually wants is the fine fresh and

not much variation in the mode of cropping. One gentleman whom I met possessed 360 acres, of which 100 were under thin'y timbered woods that yield excellent pasture. The 260 acres of arable land were allowed to remain for six years under grass, and then, after being cropped for another six years with wheat or Indian corn, sown out again for pasturing. Six hands were required to manage this extent and attend to the stock, and eight horses were required for cultivating it.

"I was informed that a field, after it had been cropped with Indian corn for eight years, would fill up in four years with the fine blue grass which is so valuable for pasture in Kentucky, although no seeds were sown. So natural is this grass to the soil, that at the end of this period it would extirpate all the weeds that infest the cultivated fields. But by sowing grass-seeds with the last grain-crop, fine pasture would be got the succeeding year. The Kentucky limestone soils, that are so genial to the growth of t e finer grasses, are, comparatively spearing, like the same class of soils in Ireland, inexhaustible

"Rearing mules forthe southern markets is carried on to a great extent in Kentucky and Tennessee. The gentleman who occupied the farm above described usually grazed above forty of these animals during the warmer months In winter it cost 16s. 8d. (four dollars) a-month for keeping a mule, as it is allowed as much Indian corn or oats as it can consume. An ox on grass is kept for one dollar a-month. Though the Ohio is often frozen over in winter, the cattle are not stabled; the wood-pastures, however, afford good shelter from the high winds. They are fed upon hay and Indian corn: the latter is given to them as it is cut from the fields. One would be very apt to suppose that great loss would arise from the imperfect manner in which cattle would masticate the unground grain of Indian corn; but a lot of pigs are usually winte ed with the cattle, and act in the character of a save-all. Some of the pasture-fields, too, are often allowed to grow after the middle of July, and they thus afford good winter grazing.

"That the natural produce of wheat is much smaller in the fine grazing lands in Kentucky than in the country immediately to the south and north of Lakes Erie and Ontario, was the testimony of all the farmers that I conversed with. The same lands which yielded on an average 75 bushels of Indian In southern Ohio and Kentucky, Indian corn obtains those conditions of climate which are favorable to its producing its maximum yield, but which are not equally well suited for bringing to maturity large

"Clover and timothy succeed very well in Kentucky: the latter is in great repute for hay. But when the land is allowed to remain in pasture, the others out. Large quantities of hay are made in the

ad the United States.

"I could soon readily distinguish the Kentuckians from the northern farmers. Some of the former the farms in the best grazing districts is from 300 to ruddy complexion to make him every inch an English country gentleman. Had Buffon seen the pro- dian, which, for wit and humor, with all the ornaduce of Kentucky at the exhibition at Springfield, he ments of the stump-orator, put the other speakers would have qualified his theory of the degenerating influences of the climate of North America upon men and animals. But the northern farmers, on the other hand, are much smaller men, with a vast amount of activity and energy. All who labor with their hands upon the land in America lose that full habit of body which even our agricultural laborers have at home. A difference in the dietary may have something to do with the matter, but the great ex-tremes of the climate, conjoined with field-work, are the principal elements. It struck me that both the men and women among the wealthy commercial classes in the Northern States were more robust than

among the agricultural.

"The groand is seldom manured for crops of any kind in Kentucky or Ohio. As yet, labor appears to be worth more to be applied in cultivating a larger area of land than in collecting and applying manure to a smaller one. However, as the most of the stock is fed out of doors, there is little manure made about the yards. The principal maize-producing districts in Ohio are along the margins of the Scioto and Miami rivers, which are too rich for wheat. General Bierce, in his address to the agri culturists assembled at the county fair at Medina, said that "sandy land is preferable for wheat over clay soils." This sounds rather curiously to a Scotch farmer. The General gave a chemical reason for it, which I need not repeat; but the circumstance shows how much climate may alter our ideas respecting the characters of the soils which are best suited for cer-

"A large marquee was erected within the grounds, to accommodate one thousand persons at the banquet which terminated the proceedings. About this number of ladies and gentlemen sat down to a cold luncheon. Before the guests entered, they marched in procession around the grounds, headed by a band of music. Both ends of the erection were only closed to the height of four feet from the ground. The sides also had an open space all round, so that any one on the outside could easily see and hear what was going on within, if he chose to approach; and very soon the external company became much larger than the internal. After dinner all were put upon a footing of equality. Some of long handled brush, with a smaller round one on its the speakers addressed themselves quite as much to upper side for applying the blacking, enabled any those who were outside as to the guests proper. It one to put a capital polish on his boots with little was not to be expected that the topics discussed at trouble, and without taking them off. The landlord such a meeting would be confined to agriculture. After a short speech from the president on the success of the national show of stock-which seemed to absolve those who followed from all allusion to the newspaper. question-each speaker launched out on his own particular hobby. There was one flowery and really eloquent speech from a Kentuckian, in which ne took occasion to deprecate the "fanatical agitation" of the Northern States against the "peculiar institution." Some followed on the other side, and spoke with as much vehemence. A governor of one of the neighboring States, mounting on the form, and turning round, chiefly addressed himself to those without, on the necessity of keeping the able men at home to manage local affairs, and to send all the "blockheads" to Washington. This was a very ri "blockheads" to Washington. This was a very ridiculous and inflated speech, and I was rather surprised to find its author, whom I afterwards met, a efforts to educate the masses. shrewd, sensible and practical man. A speech on the importance of protection to native industry call-Sandusky, on Lake Eric, a distance of 134 miles. A ed forth one, on the Reciprocity Treaty, by a Canalevel but slightly undulating country all the way,

entirely into the shade. The crowd that were without were remarkably well dressed. One, who was close at my back, made the remark to his companion that a certain speaker, whose volubility was extraor-dinary, "would be hard to get down." The entertainment broke up about sunset, all seeming highly pleased with themselves and each other, notwithstanding the ardour of some of the speakers.

"The weather was most delightful all the time that I was at Springfield. It was what is called the "Indian Summer." The mornings were cool, with fog in the low grounds, but during the day the sky was without a cloud. The heat was considerable in the afternoons, the thermometer rising to 66 °. An almost complete stillness prevailed during the day, for there was scarcely as much air stirring as to rustle the rapidly fading leaves in the oak grove where the

show was held.

"A few of the spirited inhabitants of Springfield had guaranteed the premiums offered by the National Society. They expected to get out of this transaction by the money drawn for admission to the show-grounds; but the State fair had been held about n fortnight previous in a neighboring town, when far greater attractions were held out to the general public than seeing well bred cattle; for, besides the premiums that were offered for all kinds of agricultural implements and produce, some were also given to the ladies who could ride and manage horses most gracefully. This novelty was the means of attracting immense crowds from all parts of the State. So no wonder the Springfield cattle exhibition was unpopular; and the receipts fell so far short of the expenditure, as to leave the managers to pay £1200 out of their own pockets.

"I lodged in a boarding-house at Springfield that was under the direction of a gentleman and his two sisters. Some of the apartments were newly erected and in an unfinished state. It was overcrowded, and the guests soon saw that the staff of helps on this occasion was far short of the required number; so every one had to help himself in many things, and even to clean his own boots. I was rather pleased with the article which rendered this operation almost as gentlemanly a one as the brushing of a coat. went about at his ease, after serving us at the differ-ent meals, but his hands were otherwise pretty full, for he was likewise a banker and an editor of a

"Some of the orators who had not got their breath fully exhausted at the banquet, addressed the crowd from the windows of the hotel in the evening, on various political subjects. The curious thing to me was, that men who were really sensible in private conversation, should launch out in such a strain of exaggeration as was usual in their speeches; for the most of those with whom I talked upon the matter, look upon the whole as a piece of foolish acting. But it would seem, however, that this style is best calculated to gain the ear of the majority in the western parts of the United States. No wonder, then, that the more rational and enlightened use such

lours were fading fast. The immediate vicinity of of land along the shores of Lake Huron is very Sandusky is flat and marshy; but a little to the swampy; and wherever dampness exists, there is south of this town, the limestone gravels and sands more accumulation of vegetable matter, which re-

being removed exposes a surface beautifully smoothed and polished by the action of those agents that dian corn, oats, or barley. have transported to the southwards the vast accumulations of sand and gravel which lie scattered State Agricultural Society, I left Detroit by the over certain regions of Ohio. The floors of the celral way on the 30th October, for Ypsilanti, twentylars of the houses in Sandusky consist of this finely seven miles due west. The banks of the Detroit polished surface. A travelling companion sought were originally settled by the French, and, as in out a friend of his in town, by whom we were treated to quail, woodcock, black bass, and white fish for ribbon like stripes which extend from the river. The supper, which were all particularly excellent. These kinds of fish swarm in the lake, and are caught in great numbers. Took the steamer at night for Detroit, a distance of seventy miles, and at daylight found ourselves along the wharf of this great depot of produce. On the opposite, or Canadian side is the town of Windsor, which is the terminus of the Great Western Railway, that traverses Upper Canada from Niagara, by Hamilton. The Michigan Central Railway connects Decroit with Chicago. Hundreds of emigrants pass Detroit every day in summer for the west, and large numbers are con stantly seen hanging about the station, waiting for the departure of trains. In general they have a most emaciated appearance; and no wonder, after having suffered a long sea voyage and great discomfort since landing. The piles of trunks and luggage of all sorts lying about on the wharf, gave me some idea of the vast human stream that was flowing to the westward. The railway company have a river frontage of half a mile, which was entirely covered with goods of one description or other. The river here is three-fourths of a mile in breadth, and flows at the rate of three miles an hour. It is of a fine green color, as clear as crystal, and used for drinking without filtering.

"Detroit has now upwards of 40,000 inhabitants. The houses are mostly built of brick and the streets are wide and handsome. The number of fine villas in the suburbs, as well as the numerous handsome carriages rolling about in the evenings, indicate a lions that cover too many mares in a season, in the carriages rolling about in the evenings, indicate a population rapidly advancing in wealth and luxury. latter period produce weak offspring.

As regards the mare, it is well known that the dam contributes more to the integrity of the off-From the appearance of the streets on Sundays, this of Cincinnati. In the afternoon, however, I met se-

much of it cropped with wheat and Indian corn alternately; but near Sandusky, wheat and clover, as soil in southern Michigan is very similar in character in Canada West, the common rotation. The forest to the wheat soils of Canada West; I should say, still covered two-thirds of the country through which we passed. Oak and beech were the common trees, the leaves of which were still on, but the content of the country through the shorest faller for the common trees, the leaves of which were still on, but the content of leaves for the country through the shorest faller for the country through the shorest of Leaves of the country through the shorest of Leaves of the country through the shorest of Leaves the country through the shorest of Leaves the country through the shorest of Leaves the shorest of Leaves the country through the shorest of Leaves the country through the shorest of Leaves of the country through the shorest of Leaves the country through the shorest of Leaves the country through t afford very productive wheat soils, more so than in quires to be somewhat wasted by cropping before any other part of the State. The population of Sandusky is about 12,000, of drained; for, until the virgin richness of the soil is whom one-half are of German extraction. The for-mation here is limestone, belonging to the upper si-lurian. It is covered in the neighborhood of the doubt that much of Michigan, as well as Ohio, will lake with several feet of a peaty material, which on produce better crops of wheat after the fertility of the soil is somewhat reduced by cropping with In-

In company of Mr. Holmes, secretary of Michigan French mode of settlement is not perpetuating itself in Michigan, for the descendants of the French are

amalgamating with the Americans. The country to the westward of Detroit is flat, and much of it in need of draining, but it was well timbered, and clear-

ings were going on very rapidly along the line of railway. At Ypsilanti the country is more rolling, and the soil is mostly sandy and gravelly.

On Breeding.

The choice of a sire and dam is a point of the utmost consequence in breeding horses, (or, indeed, any other animal.) as the offspring will be found, in almost every instance, to inherit the qualities of its parents: peculiarity of form and construction is in-herent and descends from generation to generation. Hence the necessary attention to those niceties which breeders are often apt to forget. Nor is it sufficient that one of the parents be good, and the other indifferent; for the perfections of the sire may be lost through the deficiences of the mare, and vice versa.

In the selection of a stallion many things should be observed. The height should depend on the oc-cupation the foal is destined to fill. The legs should be particularly examined, and disease should pervade no part of the system. Fut, heavy horses, with thick legs, and coarse, unseemly heads, should always be avoided. Horses should be free from speeks on the eye-partial or total blindness. Temper is an essential point, for vice is sometimes hereditary. Stal-

spring than the sire. It is essential that she be in is a more church-going people than the inhabitants full possession of her natural strength and powers: the vigor of the constitution determines much in faveral persons coming into town carrying large quantities of game.

wor of the foal. It is a great error to suppose, that tities of game.

Michigan is by no means so fertile as Ohio, though great exertion, should, when old, and no longer fitit contains a large extent of land capable of raising tod for work, produce offspring equally efficient as winter wheat. Its surface is very flat, little of it when in her prime: the foal will certainly inherit being more than 150 feet above the level of the some of the weakness of the present nature and lakes, which surround it on three sides. It forms a broken down constitution. Mares should never be part of that vast plateau which is drained by the put to the stallion until they have arrived at maturi-Ohio and Mississippi, and which stretches through ty, which takes place about the fifth year. Mares

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strength and beauty are absent; and thus not only sheep, purchased at the Hengrave sale, as well as is the dam rendered inefficient sooner than in one that is allowed to come to maturity, but the foal can ever saw leave the port of Liverpool. The Berknever be expected to be either healthy or strong in shires were from the famed stocks of Mr. Hewer and constitution. The period of going with foal is eleven months: after the sixth month, great care and gentleness should be exercised towards them; moderate exercise is essential; hard work in harness, over bad roads, is likely to produce abortion; and mares that have once aborted are very liable (if the same causes are in operation) to a recurrence of the same.

The proper time for copulation is when there is a whitish fluid from the vagina. She neighs frequently, and exhibits great desire for the horse : when she has conceived, she shows no further desire, and the discharge from the vagina stops.

Some writers recommend the mare to be put to the stallion early after foaling: this is improper, for the simple reason that the dam has to nourish two, viz: the foal and the embryo; this is excessively weakening, and liable to weaken one or the other.

Disproportionate copulations are also bad, as a large horse and a small mare: the size of the horse should be produced by gentle graduations, and this is evidently a better way to arrive at beauty as well as strength.

The best method of preserving the breed and making improvements, is to make selections of the best on both sides. Much judgment and circumspection is necessary at all times in crossing the breed; and many errors arise in consequence of a want of knowl-

edge in the breeders.

When the period of foaling draws nigh, the mare should be separated from the other horses. Having foaled, turn her into a fine pasture, where there is a barn. The foal may be weaned at six months. If the foal dies, or is taken away from the dam, humanity would suggest the propriety of a few weeks' rest, to enable the animal to recover from the effects of parturition.—Am. Vet. Journal.

Export of British Cattle to the United States.

Liverpool for New York, on board the Antartic, Capt. Stouffer, a most vlauable cargo of horses, cat-tle, sheep and pigs. Prominent among the cattle were a young cow called Darlington Sixth, by a son of Grand Duke, bought at Mr. Sainsbury's sale, in August, for 300 guineas; and a very fine heifer, Marie Louisa, by Mr. Booth's Hopewell, purchased at a recent sale in Ireland. There were also three first-class heifers from the unrivalled herd of Col. Towneley, of Towneley-hall, in Lancashire,-Buttercup Second, by Horatio, from Rosette; Miss Butterfly, by Master Butterfly, from Rosa; and Pearlette, by Falcon, from Ringlet. The price given for these three heifers was 1,000 guineas, although only just turned one year old. Two of them are de-scended on the dam's side from the same family as the famous bull, Master Butterfly, which animal was sold for Australia, in July, at 1,200 guineas. Miss Butterfly was the first heifer calf by him. Pearlette is descended from Mr. Booth's Bracelet, one of the most celebrated prize cows of her day; and for the dam of this heifer Mr. Douglass recently gave Mr. Towneley 500 guineas. These animals have been purchased by Mr. Strafford, of London, for Mr. Thomas, of New York, one of the most enterprising breeders of that country. There were also con- For the doctor is fully as industrious in his efforts to

are bred from earlier, but it is a bad practice, for signed for this gentleman some very fine Southdown some of the best Berkshire and Essex pigs that we ever saw leave the port of Liverpool. The Berk-Mr. Overman; the Essex pigs were bred by Mr. Crisp, and included the prize boar at Chelmsford, as well as some young sows, also shown there. With the above there were shipped some splendid South-down sheep from Mr. Lagar's flock, as well as the shearling ram, bought at his sale for 80 guineas. These are for R. A. Alexander, of Kentucky, a gentleman whose name stands high as a great purchaser of our best animals, and who, in a recent visit to this country, bought the celebrated horse Scythian, by Orlando, winner of the Derby (by Touchstone.) one of the best stallions this country ever produced, whose podigree and performances are well known to the sporting world. He was winner of the following prizes: Newmarket Stakes, £350; Dee Stakes, Chester, £750; Goodwood Stakes, £539. This valuable horse, for which Mr. Afexander gave 1,500 guineas, accompanied the above cattle, under the charge of Mr. Beck, and is consigned through the Messrs. Tattersall.-Liverpool Times.

On the Study of Insects.

In the November number of the Medical Independent, there is the second of a series of articles upon the "structure and functions of insects." These articles are written by one of the editors of that Journal Dr. HENRY GOADBY, a fellow of the Linnæan Society of Great Britain, and one of the most able naturalists and certainly one of the very best microscopical observers there is in the country. As an entomologist, Dr. Goadby has no superior. The able and excellent, papers on various subjects connected with the growth and development of the lowest order of organized forms, whether vegetable or animal, which have been published by him, are contributions to the science of During the past week there were shipped from natural history, in its most abstruse departments, which tend to give a high character to the journal of which he is the editor. These papers are not only attracting attention, by their ability and the learning of which they bear evidence, but they are also having a tendency to encourage a desire to study and to observe amongst the younger men of the medical profession in this state, as they serve to direct attention to the subjects which are close at hand, and also illustrate in a scientific manner how important the study of natural history is to the student who would desire to become eminent, and to approach a perfect knowledge of the sciences connected immediately with his profession. We have understood that as soon as the Faculty of the Agricultural College should be ready to be organized, that it was the design of the Board to secure the services of Dr. Goadby as professor of Natural History. This appointment would certainly be one which ought command the approbation of the agricultural community and would add to the character of the institution.

enthusiastic in the pursuit of science. But to return to the article upon insects, which is copyrighted, and Independent with the consent of the author:

The characters which distinguish an insect from every other animal ir existence are few, simple, and The body is primarily divided, as before definite. mentioned, into three distinct parts-head, chest, and abdomen; in addition to these characteristics, there are always found three pair of legs-neither more nor less.

COLEOPTERA, koleos-pteron. HEMIPTERA. emisus-pteron. LEPIDOPTERA. lepis-pteron. NEUROPTERA, neuron-pteron HYMENOPTERA, hymen-pteron. DIPTERA, dis-pteron.

APTERA-a-pteron, WINGLESS.

Thus, if the creature under examination, no matter what its size, should chance to possess four pair of legs, it is not an insect, but belongs to the class Arachnida. With four pairs of legs, the body will invariably be found divided into only two portions—the head and chest being soldered together, constituting the Cephalo-thorax, and the remainder being the abdomen or body. The class Arachnida,

communicate knowledge as he is indefatigable and rule above given, it follows, therefore, that the Acarus Scaberei is not an insect, but a Mite. But the specimen may chance to have five or even six to the article upon insects, which is copyrighted, and pair of legs with the body still possessing but which with others that is to follow we copy from the two divisions, is this an Arachaidan? By no means; such an animal belongs to the highest class amongst the articulate sub-kingdoms-the Crustacea.

> It is impossible to understand anything of this science without the aid of a system of classification.

> The first classification of insects of any consequence, was that proposed by Linnæus. He grouped together his specimens by the simple character of the structure of the wings; hence this has been called the Alary or wing system. We offer the following illustration of it:

> The true CRUSTACEOUS beetles formed an order which he denominated Coleoptera, from koleos, a sheath, and pteron, a wing; which refers to the wing-cases, or elytra with which all these insects are

provided.

The second order contained the tree bugs, and is called HEMIPTERA, from emisus, half, and pteron, wing, in allusion to the upper pair of organs which are only partly wing covers, one half of which is crustaceaus, the remainder half membranous.

The third order is known as LEPIDOPTERA, from lepis, a scale, and pteron a wing, this order includes

all the butterflies and moths.

We next have the NEUROPTERA, from neuron, a This name alludes to the great, nerve, and pteron. and unusual ramification of delicate bones through the organs of flight which were called nervures by the older entomolgists.

Fifthly we have the order HYMENOPTERA, from hymen, a membrane, and pteron. Here we have four wings, all of them equally membraneous; the order contains, bees, wasps, ichneumon flies, and their

Sixthly, we have the DIPTERA, from dis, two, and pteron. This order includes all the insects with only

two wings.

Seventhly, and lastly, the order APTERA, from a, without, and pteron, wing. This order was a perfect chaos of confusion; it contained in fact every insect, and animals not insects, that could find no place elsewhere. Crustaceans, Arachnidans, Myriopods, &c., were crowded into this order.

The preparation, of which we have given a copy, was made upwards of thirty years ago, the intention being to display the Linnean orders at one view by the oxy-hydrogen microscope. We submit a magnified view of it as the best mode of explaining the principles on which this classification is founded.

A careful examination of the figures will satisfy the reader that this system had much to recommed it to general adoption; a beetle no matter what its size, has always a pair of dense crustaceous covers to protect its wings, which, when unfolded for the purpose of flight are always much larger than the case that covers them, and shaped as represented in the figure.

So too, the semi-crustaceous superior organ to gether with the peculiar shaped wing, is equally characteristic of many, but not all, the tree bugs.

Butterflies and moths are easily known by the scales which cover their entire bodies, and which come off so plentifully on our fingers and thumbs when we touch them.

The beautiful lace-winged flies, with their light, contains the Spiders, Scorpions, and Mites; by the and gauzy organs of flight are conspicuous.

The bees, wasps, and other kymenopterous insects Thus Fabricius, a pupil of Linneus found his masare easily defined by the inequality of size in their ter's classification unsuited to the entomological wings, no less than the peculiar manner in which the under wing' fits into the superior one.

The two winged flies admit of no doubt.

The greatest difficulty however, has always been with the Linnean apterous order, of which we shall

have more to say hereafter.

All these Linnean characters are so very obviousso easily accessible, they may be detected whilst an insect is on the wing—that we still regard it as a most useful, and desirable system, one that may well supply the want of all those persons whose knowledge of insects is limited, and who are not engaged in forming a collection.

The number of insects with which we are acquainted in modern times, compared to those known by the great Swedish naturalist have rendered other systems-more complicated and perfect-necessary. the Diptera.

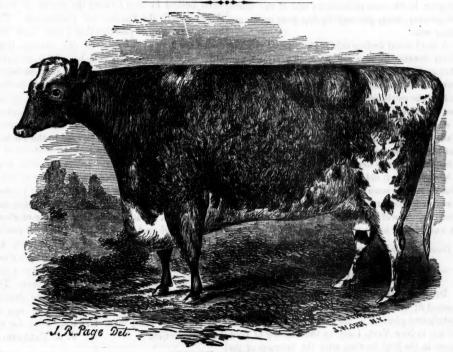
ter's classification unsuited to the entomological wants of his day, and proposed one based upon the structure of the mouth.

It is unnecessary, because foreign to our purpose, to describe the various systems proposed, or to point out the advantages belonging to them respectvely; suffice it to say, that the modern classification of insects embraces the principles, combined, of the authorities mentioned, and others.

From the structure of the wing, the mouth, and the number of joints in the feet, insects are now

classified and arranged.

In all the Articulata the skeleton is placed on the external surface of the body. In insects it is horny, sometimes hard and brittle as in the beetles, at other times soft and elastic, as displayed usually in the larva of Lepidoptera, and in the perfect insects among



SCOTTISH BLUE BELL,

A Shorthorn Cow, the property of R. G. Corwin, of Lebanon, Ohio. Winner of the first premium at the Ohio State Fair, held at Cleveland last September.

Wintering Calves-Feeding Cattle.

EDITOR FARMER :- I have often thought I would write and give some of my ideas.about farming and the many things connected with it; but not being used to writing for the public, I have kept silent until now. I have been a reader of the Farmer for about three years, and have received a great deal of valuable instruction from it, by the communications of my brother farmers and others, for which I am much indebted to them.

Knowing that, to make the Farmer useful and

propiate to the season, and as winter is coming on, I thought I would give my rule for wintering calvesa thing that is a great dread to some farmers. Many calves are lost in wintering, and some that do live through, want lifting up in the spring, for a month or two; and I would rather have a calf that has not seen a winter at all, than such ones. Those who will follow my rule in wintering will not lose any, nor will they have to lift them up in the spring -they will come out with their heads up.

Keep your calves in a warm place, and give them interesting, the articles written for it should be ap-plenty of good hay and water, and to each calf about you do with hay, and not miss a day, and my word the east line to Cleveland, as far as I could see from for it, you will find it will pay; and when your calves the cars, appeared almost crisped. But that little come to be three or four years old, you will find that neck of Pa. that lies on the lake, especially the west your grain has been well sold. The best kind of part of Elk Creek and west, seemed to have fared meal that I have tried is corn and oats ground to-better. I saw excellent good corn, potatoes and gether half and half.

well is to measure the length of their horns in the frequent fires on the south side of the road from fall, when you commence feeding hay, and then Toledo to this place. Here in the valley of the when you turn them out to grass in the spring, mea- Raisin, the farmers bave not suffered so much by sure them again. If they have been thriving you drought as in other parts. Corn and potatoes are will find that the horns have grown two inches or good, and apples abundant and delicious. Mr. A. over. I was asked the other day why I wanted to Harrison, of this place, has just shown me his field grow such large horns? I will answer: you cannot of corn, now nearly secured in shocks, which he calgrow large horns without having the bone and muscle grow in the same proportion; and if the horns are growing nicely you may be sure your calves are doing well.

A word about feeding cattle in the yard, as many of my brother farmers are poor, like myself, and One beauty of the thing is, he has all his varieties, have to do so: My plan is to have a good, sub- each by itself, consequently it is easy to know which stantial rack and manger combined, and made strong sort yields the best; and which is the most profitaso that the cattle cannot tear it to pieces. I have ble. He has one kind that the tops are yet green, one in my yard. It costs but a trifle, as any kind of that he thinks are the most hardy. While looking a wood butcher can make one in a few days. made the attempt to give a model to our county fair, it. I hope when dug he will forward to the Farmer but my timbers were so large that but few could tell the different varieties and their yield. what the thing was meant for ! It looked more like a hog pen than it did like a cattle rack and manger. this village, sows turnip seed the last time of culti-But there were some who were ingenious enough to discover its use, and said it was the best plan they ever saw. It will pay well in the saving of fodder in wet weather in the winter.

ANSON C. BRIGGS.

Occola, Livingston Co., Nov. 1856.

Jottings Again.

DEAR FRIEND JOHNSTONE:-After a rather proanticipated pleasure of the visit to my children and last night will bring them forward. Look for me friends in New York, I am, by the blessing of God, home at election. again in the field, looking after the interests of the Michigan Farmer. My disappointment was considerable at not being able to attend the Chautauque day and Thursday, the 10th and 11 of September ult., quite dry by stone drains. and visit the flocks and herds of Mr. Patterson, but so it was-I was confined to my bed. I was in-

a quart of meal a day. Begin with the meal when within my knowledge That portion of Ohio from apples in Springfield. From Cleveland up I came in The best rule to know when your calves are doing the night, and cannot speak of the route. I noticed culates is the premium crop of the State. He says when husked he shall forward the number of bushels per acre to the Farmer for publication. handsomest crop of potatoes that I have seen this season are here on the farm of Mr. George Hall. I at them he gave me the name, but I have forgotten

Deerfield, Oct. 23 .- Mr. George Kedzie, near vating his corn-has now practiced it three yearsthinks he adds to his income thereby twenty-five dollars each year. With the trifling expense of about two pounds of seed at about six shillings per pound, and one day's sowing twelve acres, \$1,50 more. After taking his corn and fodder off he turns his stock on and lets them do their own pulling, except a few bushels for house use and seed the next year. The present crop is backward by reason of the drouth, tracted fit of sickness which destroyed most of the but looks thrifty, and I think the soaking rain of J. A. BALDWIN.

RECLAMATION OF WASTE LANDS .- A writer in the London Gardener's Chronicle, gives the following account of the method pursued in reclaiming waste County Fair, held at Westfield, N. Y., on Wednes-day and Thursday the 10th and 11 of September ult. quite dry by stone drains. The next operation, either by trenching, plowing, and a subsoil plow following the same furrow, so as to completely stir and mix the soil 18 inches deep, and thus break the hard formed, however, that the drouth of the season had crust or pan; then the field went through a course of been so severe that their show was small, and the cropping, that is, one or two crops of oats and turnips, the last well limed, say 4 tons per acre, at a cost dust so smothering at the time as to destroy most of of 20s. per ton; then a good dressing applied; from the enjoyment of my travels. I will say that the 25 to upwards of 34 tons of Swedes per statute acre counties that I visited, viz: Chautauque, Cattaragus were the publicly attested yield, prizes having been and Eric, had suffered severely by drouth, and while
I was there, lost much by fire—large quantities of
hay in stacks, and old outbuildings, some barns, two
grass seed per acre, sown mostly without a grain
through the description of the desc or three dwellings, and one saw mill destroyed came crop, and times of seeding, May to August; the

ground rolled before and after sowing with a light of the best blood in the United States, and I am in stone roller. In November a heavy stone roller drawn hopes that in future a public sale of short-horns will over all the pastures, and this repeated about the middle of March, if weather is moderately moist—if not, wait until it is. I let my improved grass fields last from 12th of May to November 8th, when, according to my custom, they will remain idle to next The hammer fixed the rent, the occupiers seem highly pleased with the condition of their stock the grass being abundant.

Sale of Short-horns by the Messrs. Brooks.

Mr. Editor.—As every reader of the Farmer is interested in whatever tends to improve, or develop, the agricultural interests of our State, I send you for publication the following account of a public sale of short-horn cattle, by the Messrs. A. S. and M L. Brooks, of Novi, Oakland County. The sale took place on the 12th instant on the farm of A. S. Brooks where the following stock were disposed of, viz:

cows.		
Red Rose, 7 years old, Chas. Leonard	\$75	00
Susannah and Calf, D. Whitfield, Pontiac,	155	00
White Rose, 2 years old, Wm. Whitfield,	130	00
Pale Red, 7 years old, Chas. Leonard,	95	00
Beauty, 13 years old, Mr. Hamblin,	56	00
Spot, 4 years old, Fred. Bradley,	96	00
Beauty, 3 years old, Wm. Whitfield,	150	00
Roselle, 4 years old, bid in at \$80, sold after		
afterwards at private sale to David Gage,	82	50
1 Grade Heifer, 3 years old, James Bradley,	36	00

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BULLS.		
Rover, calf, George Bradley,	36	0
Pilot, calf, H. B. Johns,	35	0
Honest John, 1 year old, Gideon Scott,	63	6
Rover, calf, David Gage,	50	6
Archer, calf, Samuel Starkweather	52	5
Duke, 2 years old, withdrawn at,	300	0
Yonondio, 8 years old, withdrawn at	200	0
1 pair of 2 years old steers, W. W. Henderson,	101	0
m . 1		44

The day was fair and the attendance was pretty good, and although the prices obtained were not equal to the quality of the stock, yet a public sale of such stock being rather an experiment in this part of the country, it was very encouraging on the whole, as the snug sum of \$1,214 was the result of the sale.

Owing to the dryness of the season much of the stock was thin in flesh, but to say merely that it was good in quality would not be doing justice; many of the animals were fine and showed much care and skill in breeding. The two years old bull "Duke" attracted a great deal of attention, he is a fine specimen of what a short-horn ought to be, and the price at which he was withdrawn shows that his owner appreciates his worth; his weight is 1730 lbs. Yonondio is too well known to stock-breeders to need any comment. Although the prices obtained for the bull calves were low, they would compare favorably with any in the State equally fed, and will be a great benefit to the neighborhoods to which they have

herds, at great expense, some eight or ten animals giving some notion of what such land needs.]

be neither an experiment nor a novelty in old Oakland. WM. HUNTER.

November 19, 1856.

We are much obliged to Mr. Hunter for his communication, setting out the results of this sale of short-horns. It is the first attempt at a sale of the kind in this State, and we are gratified to see that it has resulted so favorably. Yonondio is well known, and we think had the Messrs. Brooks cared to part with him that they would have advertised. He is certainly worth more than \$200 to any one wanting a full-blood animal of as good a strain as has yet been brought into Michigan.-ED].

An Important Question.

EDITOR MICHIGAN FARMER:

Dear Sir:-I wish through the columns of the Farmer, to tell my brother farmers what I have been doing this fall, and how I have done it; then I wish to inquire what to do in order to make my work (Necessity is the mother of invention; therefore I hold that experience is the father of economy.) After proper draining and clearing, I have plowed thirty acres of marsh, which have been covered with willow, wild rose, and other brush natural to uncultivated marshes. I commenced plowing with the iron beam plow, with the coulter attached; I found that the coulter was of no use; it only tended to clog and hinder the progress of the plowing; I removed the coulter and put on the common coulter point, which worked well. Where the sod is stiff a piece of steel riveted on to the wing of the point is of great advantage in turning the furrow; this piece of steel to work well, should run about four inches back of the common point.

I now have my marsh plowed. My next question is: what grains is my marsh best adapted to raise? The soil is a black muck, from one to four feet in depth, with a clay bottom. It is well rotted and very mellow. Yours Truly,

ROBERT BRADFORD.

Sandstone, Nov. 17, 1856.

[We have in hand some remarks to submit on this subject in the January number. We shall be pleased, however, to hear from all who have tested this very important subject. Let us have the benefit of their experience, whether successful or not. What is the best and most profitable first crop to put on a piece of drained or ditched swamp? That is the question, who will answer it? During the past year in an article showing how Mr. Samuel Linden, of Canton, had drained a piece of wet, marshy land, we suggested The Messrs. Brooks have lately added to their a treatment to which we commend the writer, as

Seed Corn and Corn Shellers—A Hint to the Makers.

Mr. Editor,-I do not know that you will thank a raw hand for writing a few lines for that valuable paper the Michigan Farmer. But what I have to write is something which concerns every farmer. It is this: the necessity of saving good seed corn. I am no prophet, but I believe there will be more trouble in getting seed-corn to grow next spring, than there was last spring, that is if we have a hard winter. My reasons for this are that corn is greener this year than common, and it will not become sufficiently dry before cold weather. I will give the manner and way that I save my seed-corn. When I am unloading, if I see a good seed ear I throw it out, and continue to do so until I have finished unloading, I take and put them in some place where they will dry, and I seldom have any trouble about having my corn grow, I never save an ear on which kernels are loose, or one that is green, on which always save the largest and soundest ears. I think farmers would do well to be over particular in saving their seed-corn, and I do not believe they will be sorry for the trouble. Enough of this. But with your consent, Mr. Editor, I wish to say a word in regard to corn shellers, and in doing so I shall find fault with most all of them. The trouble with them is they have no balance wheel, and if they have, they are not large enough. Those who manufacture them do not know of this difficulty, and as they sell, they suppose they are all right. If they would place a large wheel on every machine, they would sell better and give better satisfaction. Hoping you will pardon these few remarks and if you think them worthy of a place in your paper, you will insert them.

A READER.

[We are at all times pleased to hear from practical men. Their observations are of the highest value. We called attention in a previous number to the propriety of saving seed corn in good condition for use next spring. In the September number, a method of shelling corn is pointed out which is considered superior to the use of corn-shellers. We hope to hear from our friend "Reader" again.—ED

Cashmere Goats.

These animals were introduced into the United States from the East, in the year 1849, by Dr. J. B. Davis, of South Carolina, from whom I purchased, in the year 1853, the entire flock of pure bred females, with the exception of the one owned by Col. Wade Hampton, of South Carolina; one sold by Dr. Davis to Mr. Davenport, of Virginia, and one to Mr. Osborne, of New York. The flock now consists of twenty-five head, excluding the three pure bred females above enumerated, and several bucks owned by gentlemen in Tennessee, Geor-

gia and South Carolina, who are breeding grades by crossing on the common goat.

A great many opinions having been expressed, not only as to the particular variety to which these animals belong, but also as to their value, and adaptation to the different sections of the Union, they are now presented to the United States Agricultural Society, in order to elicit an opinion from the distinguished stock breeders and members present.

That they are not the "Thibet Shawl Goat," is proven by their total dissimilarity to a specimen of that breed in possession of the subscriber; the latter variety having only an under-coating of a few ounces—which portion of its fleece is alone valuable.

Works on Natural Science show that they are not the common Angora Goat of the Province of that name, in Asiatic Turkey, as that animal is of varied color, with a fleece of indifferent value.

They have become known as "Cashmere Goats," from the pure white color and fineness of their fleeces, and their undoubted Eastern origin, having been characterized by America's celebrated naturalist, the Rev. Jno. Bachman, D. D., as the "most valuable variety that can be introduced into our country."

The animals on exhibition consist of

No. 1. A pure bred buck kid, yeaned 20th Feb. last.

No. 2. Do. do. do. 18th May do.

No. 3. Do. do. do. 20th do do.

No. 4. A buck kid, yeaned 23d May last, one-eighth
Cashmere, one-eighth Common, showing the third

Cashmere, one-eighth Common, showing the third cross of the Cashmere on the native goats of the country.

No. 5. A buck kid, yeaned 23d May last, three-

fourths Cashmere, one-fourth Common, showing the second cross.

No. 6. A yearling ewe, half blood Cashmere, showing the first cross. The mother of this specimen being a common blue goat.

The fleeces of the matured bucks weigh from six to seven pounds. Ewes yield from three to four pounds. The flesh of the crosses is superior to most mutton, tender and delicious, making them a desirable acquisition to our food producing animals.

The ease with which they are kept, living as they do on weeds, briers, browse, and other coarse herbage, fits them for many portions of our country where sheep could not be sustained to advantage; whilst their ability and disposition to defend themselves from the attacks of dogs, evidence a value peculiar to this race of animals.

They are free from all diseases to which sheep are liable, hardy and prolific; and experience has proven that they readily adapt themselves to all portions of the United States.

RICHARD PETERS, Atlanta, Georgia.



The property of Richard Peters, of Atalanta, Georgia, imported during the year 1849, form Turkey, in Asia, by J. B. Davis, M. D., of South Carolina. Live weight, 155 lbs.—weight of yearly fleece, 7 lbs.



The property of Richard Peters, of Atlanta, Georgia, imported during the year 1849, from Turkey, in Asia, by J. B. Davis, M. D., of South Carotina. Live weight, 102 lbs.—weight of yearly fleece, 44 lbs.

Pears upon Quince Stocks.

BY JONATHAN HAUTBOY.

The cultivation of the pear upon the quince stock has given rise to a great deal of discussion, and many of those who have tried pears thus grafted, have, with a few years' experience, declared that it was impossible to raise and preserve the trees in this dry climate. The main difficulty, in my opinion however, has always arisen from a want of proper preparation of the soil in which the trees were planted, and also from a want of proper knowledge and courage in the art of shortening in. Mr. Barry, of Rochester, repeatedly has avowed his entire confidence in the system. Most of those who have attempted to cultivate pears upon quince stocks in this State, have given no attention to them after they were planted, and besides have not had any acquaintance with the wants of such artificial productions in preparing the soil in which they were to grow. The very first point, by way of preparation, should be to make a deep loamy soil, well drained, and of a depth of from twenty to twenty-four inches. If the soil is inclined to sand or gravel, it should have a good coating of clay, which is just as good as manure to such land, If clay cannot be had, then give it a good dressing of peat muck, which has been exposed to the action of the air for several months previous to being applied to the land. Draining, even on gravel, is important to an orchard, as it should be the endeavor of the fruit grower, where he is obliged to plant his trees on light land, to stiffen the soil by the use of clay, muck, marl, or such other material as may be most convenient and economical. The draining also renders such a soil warmer, and it retains moisture enough for the use of the trees. The The quince-roots are so numerous and so fibrous, and at the same time so little disposed to extend themselves to any distance from the tree, that one or two luxuriant fruitings of the tree soon exhaust the soil, and when once the tree begins to decay, there is little help except the spade, and a new tree in place of the decaying one. Yet, of all our cultivators, there is hardly one who has ever paid any attention to mulching or tilling the soil, and thus keeping the tree in a growing and producing condition at the same time. Another great point totally neglected, or else but little understood, is the "shortening in" of the young wood, so as to prevent over-production. Without the soil is properly prepared, and the pruning is done systematically, no such artificial production as the pear on the quince can be expected to thrive and be either profitable or ornamental. In this connection let me quote the following from the address of Marshal P. Wilder, before the American Pomological Society of Rochester:

"My experience has so often been solicited by private communication, in relation to the pear upon the quince stock. that I deem it proper to introduce the next twenty-five years.

it in this connection, with the reasons on which it is founded. Many varieties of the pear thus grafted grow vigorously, and bear abundantly. I am aware that an impression has prevailed in the minds of some unfavorable to the cultivation of the pear on the quince stock, an impression which must have arisen from an injudicious selection of varieties, or improper cultivation. In this opinion I am happy to know that I am sustained by Mr. Barry, in his address before the North Western Association of Fruit Growers in Iowa, and by other pomologists. Pears upon the quince should be planted in a luxuriant deep soil, and be abundantly supplied with nutriment and good coltivation. They should always be planted deep enough to cover the place where they were grafted, so that the point of junction may be three or four inches below the surface. The pear will then frequently form roots independently of the quince, and thus we combine in the tree, both early fruiting from the quince, and the strength and lon-gevity of the pear stock. For instance, of trees of the same variety, standing side by side in my own grounds for ten years, and enjoying the same treatment, those on the quince stock heve attained a larger size, and have borne for seven years abundant crops, while those upon the pear stock have scarcely yielded a fruit. We have also others on the quince which twenty-five years since were obtained at the nursery of Mr. Parmenter, where now is the most populous part of the city of Brooklyn, N. Y. and which have borne good crops for more than twenty years, and are still productive and healthy.

"The introduction and cultivation of the pear upon the quince has been a great blessing, I entertain no doubt, especially in gardens, and in the suburbs of large towns and cities. And as to its adaptation to the orchard, I see no reason why it should not succeed well, if the soil, selection, and cultivation be appropriate. A gentleman in the eastern part of Massachusetts planted in the years 1848 and '49 as many dwarf pear trees as he could set on an acre of land at the distance of eight by twelve feet, and between these rows he planted quince bushes. In the fifth year from planting he gathered one hundred and wenty bushels of pears and sixty bushels of quinces. Of the former he sold seventy bushels at five to six dollars per bushel, and he now informs me that he has lost only three per cent. of the original trees, and the remainder are in a healthful condition.

There are also two other points in regard to the cultivation of pears on quinces, which every cultivator must bear in mind, and one is when purchasing his trees, he should select sorts which are known to succeed well on the quince; and second, he should be sure that the quince stocks are of the improved Angers, and not the common indigenous variety. Fruits of fine qualities are getting valuable, and none more so than the pear. I noticed as an instance of this, in an eastern paper, that among the luxuries which the forger, Huntingdon, had ordered for his meals, were pears at a dollar a-piece!

I will have more to say on this subject in your forthcoming volume, for fruit can be produced in this State of the finest quality, and there are the best of markets waiting to snap at all we grow for the next twenty-five years.

Beyartment. **Horticultural**

S. B. NOBLE, EDITOR.

A Chapter on Fruits.

In consequence apparently of the severity of the winter, and unfavorableness of the spring, a large number of young trees of rare varieties which promised fruit have failed to produce.

Carolina June has borne a few very fine specimens. It gives promise of decided excellence. Very showy, medium sized, bright red, ovate. Flavor "very good," if not "best." To my taste superior to Early Harvest, and ripened a few days defore it. Under similar circumstances they would probably ripen Tree a good upright grower. Should together. it prove a good bearer it will probably be valuable for market, as its size, appearance, and flavor, would render it very attractive.

Sine Qua Non has this year shown itself a good bearer. Fruit of fine size and great beauty, exceedingly tender, mild subacid. Ripened this year before Early Harvest.

bearer on old trees but younger trees bear more thinly, and, unless top grafted, appear to lack hardiness.

Porter, and the Golden Pippin of this region once supposed to be identical, have now borne another crop side by side, and after a careful comparison of trees and fruit, at home and at our State Fair, and sending specimens to eastern pomologists, the conclusion arrived at is, that they are distinct. Both are exceedingly fine. Golden Pippin is an enormous bearer; whether Porter will equal it in that respect is yet to be decided. The season of the former appears to be one or two weeks earlier than the latter, and, judging by the specimens that have come under my observation it will also average a little larger. The Porter is the stronger grower.

Fall Wine of Ohio, is but little disseminated. It is a medium sized, striped apple, and one of the finest flavored of its season-September.

Granville, is the name of a very fine, tender, juicy, roundish, flattened. Have been unable to trace its origin. Tree a good grower, and fine bearer, season September and October.

Cooper has been grown here since the early settlement of the country, but only recently identified. It is a good grower forming a rather upright, finely ture, will make it all that can be desired in that rounded head; bears well every year. Fruit usually respect. of large size, flattened, conical; very juicy, mild sub-habit of bearing is such, that it holds its fruits against acid, always fair; beautifully striped with pale red on high winds better than most other varieties; ranking a pale yellow ground. It commences to ripen and in this respect with Red Canada and Yellow Beldrop its fruit in the early part of September, and flower. The earlier crops of this variety, consisting

St. Lawrence has borne but a single crop. It is a very beautiful fruit, with an unusually vigorous tree. Said to be a great bearer, and a profitable market It appears perfectly hardy here, and will doubtless prove valuable. Indeed, the experience of a single season here, would assign it a place among our finest flavored fruits, did not its reputation for acidity with eastern pomologists, stand in the way. Season, September and October.

Baldwin, although a strong grower, and a native of the extreme north, seems to be less hardy than many feebler southern varieties. The effects of the winter are manifest near the surface of the ground, and I do not recollect to have seen a single tree of this variety, grafted at or near that point, that has not suffered more or less severely; while topgrafted trees are entirely unscathed. It seems, however, that this is not owing to any peculiarity of our climate, as I am informed that it is liable to the same difficulty in its native region.

Esopus Spitzenburg, seems from the past winter's experience, to be also liable to the same objection as Baldwin.

Roxbury Russet, another New England variety, Early Strawberry is a good grower, and a great is also equally tender; nearly every root-grafted tree being either dead, or essentially injured. In such cases prevention is easier than remedy. The obvious course for that purpose is, top-grafting on healthy seedling stocks.

> Hubbardston Nonsuch, has now borne, So far as I know, it is entirely new in this region. It is a large fruit, of great beauty, and of the finest flavor. It will doubtless rank here as elsewhere among the finest of its season. October to January.

> Ladies' Sweeting, is a variety just in bearing here which originated at Newburgh, N. Y. It is also known among some New Jersey men as Jersey Sweet Pippin. So far as tested here it promises to sustain its eastern reputation. Tree of rather slender growth. Fruit of good size, tender, juicy, and unusually rich. Will probably prove far superior to Talman Sweeting, which has heretofore been considered our standard winter sweet apple. Although sufficiently mature for use now, it is said to keep till May.

Northern Spy, has been looked upon with suspimild subacid apple, pale yellow, of medium size, cion by many, but the past season has established its reputation as a great bearer of fine fruit. It gives indications of a disposition to overbear, and produce scabby fruit; but not more so than several other of our finest varieties. It is altogether probable that judicious pruning, and good cul-Although the fruit is of large size, its may be kept till December, and often till January. of overgrown specimens, failed to verify its reputa-

tion as a longkeeper, but later crops of more natural growth, have kept well. It may bowever be fairly doubted whether its season can be prolonged till July, as stated by Mr Barry, without unusual than when I saw you last, at your home. As I am care. With thorough cultivators, it will doubtless become a very popular market fruit.

Red Canada, or as it is usually called here, Steele's Red Winter, is constantly taking a deeper hold upon the confidence of our truit growers; so much so indeed, that some individuals contemplate planting large orchards of this single variety; while it forms a larger share of the selections for new orchards, and for the re-grafting of old ones, than any other variety. It is the opinion of those who have cultivate it longest that it is the most profitable market variety of this region; as it bears heavily and constantly, while the fruit is always fair, and beautiful, of good size, and keeps, well till May, and even till June, when it is sure to command a high price.

Winter Pippin is a very fine long keeping fruit somewhat cultivated here, said to have been received under this name from the state of New York. So far as I can recollect, the fruit is large flattened conical, usually oval in its transverse circumference. Color pale yellow, with frequent diffused carmine dots where exposed to the sun; not very juicy, mild sub-May prove identi-Said to keep till spring. cal with some eastern variety.

Davis is a name applied to a seedling apple originating in this vicinity with a family of that name. The fruit was first brought to my notice by Mr. Jehiel Davis, by whom the original tree was planted nearly thirty years ago, and on whose farm it is still The tree is a good upright grower, and usually bears moderately every year. Fruit, (from the original tree,) rather below medium; round, inclining to oblong or ovate; stem one inch long, rather stout for so small a fruit, set in a moderately deep regular cavity; calyx closed, set in a shallow plated basin; color a pale greenish yellow ground, with a dull red blush on the sunny side and a faint blush, and broken stripes of dull red, in the shade; the whole nearly over spread with a very faint, often scarcely perceivable, cinnamon colored russet, strongest about the calyx, and gradually shad ng out toward the stem; the whole surface interspersed with small gray dots. Flesh, yellowish white, firm, crisp, fine grained, juicy, sprightly subacid, inclining to acid till fully mature. Core, compact, small; seeds, ovate Northern Spy and Roxbury Russet on the one hand, and our earliest apples on the other. It retains its juice and freshness better than any other variety I know, as I have eaten specimens as late as the last of June, which had been kept in open vessels, in the cellar, and which were apparently as firm and fresh as when gathered. T. T. LYON.

Plymouth, Nov. 1856

Root Grafting of Apples.

Quincy, Nov. 10, 1856.

Mr. JCHNSTONE,-Sir, I hope your health is better somewhat engaged in fruit growing. I have wat hed with intense anxiety the ravages of the past unsurpassed hard winter, on our young and flourishing orchards in this vicinity. There are a great many complaints in this vicinity about trees dying. In an orchard of two hundred trees grafted in the root, of seven years growth, I find that about twenty of them have died. Many others grafted in the same way in other orchards, have shared a similar fate. I find also that nine-tenths of all that have died around me are of the Roxbury Russet and Virginia Redstreaks. I have an orchard of seven hundred trees, all seedlings, grafted in the top, except a few which died down to the ground, and afterwards were regrafted in the root. But one of the whole number suffered, and that was grafted in the root. There are other orchards here, which prove that rootgrafted trees are not so hardy as those grafted on. the stem or top. With the evidence I have before me, I have come to the conclusion that seedling trees grafted in the top are the hardiest and best. In this way we get the kinds we may choose, and are not liable to be deceived by tree pedlers or nursery-

Yours truly, JAS. CLIZBE.

[Mr. Clizbe's remarks relative to the Roxbury Russet and the Virginia Redstreak varieties are worthy of the attention of fruit growers, and if confirmed by the experience of other fruit growers, would lead to the conclusion that these varieties are not to be relied upon in south-western Michigan and northern Indiana. It will be noted that Mr. Clizbe's experience with root grafted trees seems to coincide with that of Mr. T. Lyon, and is therefore valuable as testimony on a disputed question We hope that other fruit culturists will note the utility of making their observations generally known. Here it will be seen are two important facts, namely, that two well known and popular apples are somewhat tender in a certain part of Michigan, and that root-grafted trees are more liable to injury from severe frosts than trees grafted on the top. Should these observations be confirmed by testimony from other quarters, it may be the means of saving a considerable outlay, by guarding purchasers of young trees from making improper selections for our State. Let us have the subject noted, and let us hear from others. -ED. FARMER.]

In season it fills the hiatus between and Roxbury Russet on the one hand, New York, C. M. Saxton & Co.

This little work is calculated to disclose a new and more economical method of treating the grape vine than any yet known. The method may be practiced on either a large or a small scale, as the cultivator may choose. The plan seems feasible for a large production, as it is calculated to give the vine a good exposure to the light, and at the same time does not cramp the plant by too close trim-

C. A. Peabody's New Hauthois.

Jonathan Hautboy called attention to the merits of the new strawberry grown by C. A. Peabody, of Columbus, Georgia, in the October number of the Farmer. Since that time we have received a very splendid colored drawing of the fruit, of the natural size, and have had it framed and hung up in our office where it can be seen by all who wish to see one of the greatest strawberrries of the age. Mr. Peabody has been devoting fifteen years of his life to the growing of seedling strawberries, and claims that he has at last secured a very valuable variety. He proposes now to forward these strawberries at the rate of \$5 per dozen as soon as he can get 1,000 subscribers at that rate. Subscribers on forwarding their n mes and the money, will receive a colored plate of the plants and fruit and the number of dozen plants they may order will be forwarded by mail, put up in moss, and carefully enveloped in oil silk. By this method Mr. Peabody affirms they can be sent with perfect safety any distance. A description of the plant with its peculiar qualities will be found in the October number of the Farmer.

Asparagus.

Those who have asparagus beds, must not expect that they will take care of themselves. If a good top dressing of short stable manure has not already been dug in, we recommend that as soon as possible a compost of stable manure and marsh muck mixed with three bushels of wood ashes to every cubic yard of the compost be spread over the bed to the depth of two to three inches. When this is done, then sow two or three quarts of salt to the square rod, and it will be found that the asparagus beds will repay the owner handsomely for his trouble. The asparagns plant is greedy and exhausting, and when not supplied with manure, the young shoots come up in the spring like pipe stems, and one can hardly cut a good sized bunch from a square rod of ground. Now we might just as well have asparagus coming up in the spring with shoots like hoe handles, but the ground must be made rich in the fall. A good coating such as is recommended above, protects the plants from the winter, and even when late applied, will keep the roots growing beneath the surface, so that when the spring comes, not only are the shoots early, but when ready to cut, they are of good size, tender, and of a delicious flavor. Salt is of great use to asparagus, and the plants will bear an extraordinary dose. In its wild state, the natural habitat of the asparagus is near the sea or salt lakes and marshes. The top dressing now, even where the bed has not been thoroughly enrichened before the plants were set out, will answer every purpose, and during the next season the old plants will throw out new roots near the surface, from which strong shoots will the streets, and their delicate jeweled fingers on the come up the next year.

Yousehold.

" She looketh well to the ways of her household, and eateth not the bread of idleness."-Proverbs.

EDITED BY MRS. L. B. ADAMS.

The Farmer.

A farmer sat in his easy chair,
Drawn out 'neath the ma le's shade,
Gazing the while on the verdant lasn,
Where his laughing children played.

'Twas the sunset hour, his work was done, And now that h s toil was o'er, He was rost ng his wearled form, beneath The old tree at the d.or.

His eve glane d over the spreading fields, O er the meadows green and fair, and his heart was filled with gratitude, That God has placed him here.

Kind hearts were in that happy home, Sweet children clad and gay, Cheered the good farmer's heart and drove His every care away.

This was the home of happiness, Joy's dear abiding place, Contentment beam'd in every glance, Shone forth in every face.

Oh! give to me the farmer's life, Its toils and ple sures too, And I will leave the town, with all Its b stling cenes to you. Nottawa, Mich., Nov. 1856.

ETHELLE.

Ourselves.

Ourselves-permit us to drop the pompous plural for a time, and pretend to no more than we are-a single unit-I. It is well enough on ordinary occasions for a woman to adopt the custom of editors generally, and keep the potent "we" between herself and readers; but now I wish to come a little nearer, to sit down beside you, my Farmer household friends, and feel free to talk with you concerning our mutual interests. It is common, and very natural to us all, to feel more interest with those in the same course of life with ourselves, and more interest and confidence in those who have had experience in the things of which they write, than in those who write from theory only, or from a distant view of the life they profess to describe.

It has sometimes occurred to me during the past year, that many who read these pages, and some who were accustomed formerly to write for them, have thought. if they have not said it, that between them and myself there could be no sympathy of feelingthat their toils and pleasures in the kitchen, the pantry, the dairy and the garden, were all as a sealed book to one whose experience was bounded by the narrow limits of city life. And I have thought that this was why so few had written for the Household, and why one who did write gave expression to the bitter and unjust reflection that "city ladies had nothing to do but dress in silks, lounge upon a sofa with the last new novel, or display their hoops in piano keys." I shall not now attempt to disprove

have had its rise in total ignorance of what city life brothers, sisters, little ones and all, would gather really is. My experience, at least, for the last three around to help throw on the falling brands and scatyears, has been far enough to the reverse of this tered brush, and watch the crackling flames stream And three years cover all of my life that has been spent within city limits. Before that, the country or a country village was always my home. My earliest recollections are of a group of log houses, of which my father's was one, on the banks of the Huron river, and which then comprised the only settlement in Washtenaw county. I remember seeing the timbers hewed and framed for the first bridge that the wagon, and took them from the field to store in ever spanned the Huron; and quite as well do I remember the years of privation and toil and hardships through which the pioneers struggled, before too. All those boys must be clothed from the prothe reward of their labors began to appear in the ducts of our own wheel and loom. Labor-saving early promise of Washtenaw to be what she now is, the pride of the State for her model farms and schools.

My first lessons in the English Reader and Morse's Geography were learned in a log school-house, and my first efforts at "helping mother" were made in our little one-roomed log house home. Perhaps it was more of a hindrance than a helping, many times, but mothers know by what patience, forbearance, and longsuffering such lessons must be taught and learned, and ours was not a mother so short-sighted to her interests and our own as to drive us from the dishpan, the ironing-table, the milking or the churning, for any untoward accident, or display of awkwardness by our unpracticed hands. She rather enforced upon us, and at the same time encouraged us in the performance of all housekeeping duties suited to our strength and age; and for this she receives what she has well merited, the gratitude of all her daughters.

After a few years, and when the carly settlers began to feel that their hardest trials were past, and to enjoy a little quiet comfort in their homes and cultivated fields, a "better land" was heard of still farther to the west. The beautiful and fertile valley pioneer life. What an immeasurable distance it seemed from the Huron to the St. Joseph! But it was accomplished at last, over the hills and valleys of the way.

Then commenced in earnest the experience of farm life, when we, the children, were old enough to participate in the labors of the house and field. But on that broad tract of burr oak wilderness there was neither house nor field till our father built the one over our heads, and then, with what aid the boys could give him, grubbed and cleared and fenced the other. What a life-wearing, back-breaking work less time than I could have wished to devote to wriwas that old system of hand-grubbing. But father ting for its pages. Constant confinement to the ofand boys worked at it steadily and faithfully till fice, attending to the books, accounts, the corresponacre after acre of the tall underbrush lay subdued dence of our numerous agents, preparing copy for beneath their hands; and then what a triumph it the printers, reading proof, mailing, &c., leaves me

this assertion further than to say that it could only was to set fire to the high-piled heaps at night, when up into the darkness, casting their ruddy glow over the broken ground from which our next year's bread was to be harvested. And we helped to plant the corn, and to harvest it too; spending days and weeks of the hazy Indian summer among the shocks of corn, helping the boys to strip the husks from the golden ears, while father poured the full baskets into the great crib behind the house, for winter use.

But we, the girls, had in-door lessons to practice machinery was not so common then as now. Our mother had been brought up after the old-fashioned way, and was quite familiar with all the mysteries of spinning, dyeing, weaving, and making up clothing for her household, and it was her custom for years to have all this done under her own roof-much of it, indeed, by her own hands. We had no silks or jewels to display, but I remember being very proud of the smooth-pressed, home-made plaids made up into dresses and cloaks for our winter wear at the district school. We had neither piano, melodeon, guitar, nor even an accordeon, but the wheel and loom and churn instead; and we were far more familiar with the care of lambs and calves and chickens than with the heroes or heroines of any novel, old

I could write you chapters, dear reader, of the experience of more than twenty years in this kind of country life; and think you that a brief residence in the city could efface it all from my mind, or check for an instant the ready sympathy that springs to meet those whom I can almost claim as kindred from having known a like experience? Not a letter comes from the country that does not seem like a of the St. Joseph tempted many to a second trial of friend I had known in that olden time. I only wish they would come oftener; and they would, I think, if the writers knew how widely some of them are read and copied into other journals. Here, for inthe old Chicago road, with only three nights out on stance, is Amanda's letter, copied, with a very pretty compliment, into the Pittsburgh Agriculturist; and we could say the same of many other communications which have appeared in this department, and from it found their way into other papers; simple as they may seem to their writers, if they are only practical and truthful, they will find a response some-

Since my connection with the Farmer I have had

little leisure to think, or to go abroad to seek for finished them. Sammy, the little boy that helped merely to fill up with; our editor says he has no before I knew how. waste places on his plantation to be filled up with useless articles; he allows us but a small space for will not feel as though you were writing to a stranwith the toils and pleasures of a country life. There can report to the Farmer the results of it. are a thousand things in your daily experience that it would do you good to write, and that others would be benefited by knowing. In the Household circle, wives, mothers and daughters should speak freely; instructingly, cheerfully; and we trust they will. There are some to whom we are indebted for favors during the past year, for which thanks are due, and warmly given. We hope they will still remember us with an occasional word of encouragement.

From a Little Boy.

if you do not think it is improper for so small a boy to do so. My father has always been a farmer. He has taken the Farmer a long time. My mother hurried home to have mother see if there was any- might keep notes in a little note-book, and he would been trying to learn as fast as I could, because I in comparing the different results which would accrue wanted to write for the Farmer. If I had not been from the several modes of cultivation. out of school so long I think I could do it pretty well by this time, but we have lived in the woods crops were cut short by the drouth. Now, I supmore than a year, and I have been out of school all pose that when you dug your beet and onion the time, only the last three months. But I have ground, you did not turn up the soil to a greater not staid out a day since school began. My father depth than a common spade would go, which is about gives me a piece of his best ground every year, to cultivate as I have a mind to. This year it was small, for we had but little ground cleared; but I raised some corn, potatoes and beans. My onions and beets did not come up very good, and the drouth spoiled those that did come. Next spring I can have a large piece, and I shall raise some flow-bed is measured off, and when the spades-man takes ers too. I can weed and hoe my garden as good as out the first spit or spadeful of earth it is laid on a man, but I cannot plow it. I always liked to hoe ground that is not to be disturbed. That leaves a in the garden. When I was about two years and a trench of one spading in depth, the whole width of half old, I hoed up all of father's cabbage plants the bed. Then again, the spades-man commences in that had been set just long enough to begin to the bottom of this trench, and lifts out a second spit grow. I thought when I was doing it that it did along the breadth of the bed. This leaves the not look like father's work, but I worked away and trench two spades deep. Now the gardener comthought perhaps it would look better when I had mences on the second row of spadings on the surface,

varieties or novelties. This department is conse-me, was afraid my father would whip us; but I quently very much dependent on contributors for its knew he would not, though I was afraid he would interest. And now my friends, in asking you to not like the way it was done. We did not have write for it, I hope you will not look upon it as a any cabbage the next winter; but I am going to request for you to send in long pages of something try to raise as many more next summer, as I spoiled

> Newago Co. FRANK STUART."

Frank's letter is evidence enough that he is an inour Household and door-yard, and we must there- telligent boy, and his punctual attendance at school fore economise and make the most of what room we is right, and just what we ought to expect from have. I trust that after this long explanation, you him. As he says he will cultivate some onions and beets next year, we will suggest to him a little expeger, or to one who had no interest or sympathy riment, which, if he has time, he may try, and he

Let him lay out a piece of ground for his beets and his onions, of such size and shape as he thinks proper; but we suggest that it should be a parallelogram (if he does not know what such a big word means, he must find out its meaning from the dictionary, or from a school book on geometry). He should divide this parallellogram into three divisions of equal size, to each of which different treatment should be given. He might number the divisions 1, 2, and 3. Now, he might dig and sow the beets or onions in division No. 1, just as he has been accus-"I am a little boy, and could not write a letter tomed to do. No. 2 he might dig and trench, and without help, if I should try, but sister will help me, spade into it as much old cow-house manure as posand I would like to write a few lines for the Farmer, sible, and then sow the seeds. No. 3 he might dig and trench, and after making it smooth with the rake, he might sow the seeds without manuring; but after the young plants begin to show their first used to read it to me before I could read. I used to leaves, he might manure the plot with liquid manure. go to the Post Office for the Farmer, and I always This is an experiment, of the progress of which he thing said about little boys and girls. And I have thus learn to observe and use his eye and his mind

In your letter, Frank, you complain that your eight or nine inches. Now, I propose that you should try what effect turning the soil twice that depth would have to save your crops from the effects of drouth, and that is what I mean by trenching; trenching, or trench digging, is a gardener's term for double digging, which is performed thus:-A

digs the surface into the bottom of the trench, this see what satisfaction can be got from the ready supper tacond spit from the bottom of his trench, and puts it lay at the bottom of his second spading. You will Clark, and Henry B. Palmer, of Lima, whose answers to see that by this process, the soil is made twice as deep as it was in division No. 1, and that the mellow soil should have been in was printed. Their letter must have which composed the surface is at the bottom. Now fitted for fine seeds, but you must make it as fine as girl less than twelve yoars of sge, to solve the others." you can by turning it over lightly again, to the depth And there are two more new ones-Alfred Wellington, of two or three inches with your spade, carefully which I have spoken of above, to be dug into No. 2

If this trench digging can be done in the fall, or be-If this trench digging can be done in the fall, or beso long in getting to them that they do not receive the fore the ground is frozen, it would be better, for the Farmer till two or three weeks after it is printed, and frosts and snow have a very beneficial effect on soil exposed to the atmosphere for the first time; the reason for this I hope to teach you in future numbers

The liquid manure, for irrigating No. 3 division, may be the liquid matter which passes from the cow or horse stables, and if it could be conducted by a covered gutter to a large cask or box sunk in the ground, and well clayed round, in place of a tank, you could dip it out with a pail. Or if this could not be done conveniently you might get your sister, who I perceive to be a very obliging girl, to save all the slops and dish water and suds for you, with which you might mix solid cow manure, at the rate of a half bushel to each barrel of suds, and let it cut of the bottom of the cask by a plug, so as to strain it into your watering pot. With this irrigate No. 3 twice per week from the time the seeds sprout until the first week in September.

Watch the results of each kind of cultivation, measure the length of the growth of the medium sized plants, and note down regularly from week to week the differences you may perceive in the growth of the plants, and how each division is affected by the drouth.

When the crop is dug, if you can weigh the produce of each bed, or measure it in some way, you will be able to judge whether there is a way of preventing the effects of drouth by depth of cultivation

If you carry out this experiment, and make as good a report to me as your letter indicates you can, next year, I will make you a present of twelve of the best young apple trees I can find in the Nursery of Messrs, Hubbard & Davis.—Ed. of Farmer.

The Children.

" Well, here are the children, again!" exclaims mamma, as the rosy-cheeked troop come hurrying home from school, eager to feel the warmth of the kitchen fire, and to to send the answer with it.

fills the first trench half full ; he then digs the se-ble. And "Here are the children, again!" we exclaim, as the youthful members of our Household gather around us with their puzzles, enigmas and answers. We are glad to upon the top of the first spit, filling the trench full, have them come, and glad to see their numbers increasand making the surface of his bed of the soil which ing. Here are two new names in one letter-Joseph D. enigmas 9 and 10 did not reach us till the number they been delayed on the way. And here is little Julietta, again, with a pretty little puzzle; and G. C., of Augusta; the top soil may look rather lumpy, or if the soil is and Frankie, who has answered the zoological enigma, but gravel it may not be dark colored, nor appear to be says, "It will take an older head than is carried by a little who comes with an answer in one hand and an enigma in of two or three inches with your spade, carefully breaking into pieces every little lump or clod, at d in doing this, you may add to it the solid old manure "older head" than any other on our list. However, both are welcome. We have some other little friends at White then they hardly have time to send in their answers before the next number is out. These difficulties will be obviated as railroads and public improvements progress, when we

We have a few words to say on the subject of spelling, but must defer it till another time, or we shall not have

room for any enigmas.

Puzzle No. 1.

I am a preposition. Head me with B and I am used to put wheat in. Head me with F and I am on a fish. Head me with G and I am a kind of liquor. Head me with K and I am a relation. Head me with P and I am indispensable. Head me with S and I am what we all do. Head me wita T and I am very useful in the pantry. JULIETTA.

Historical Enigma.

I am composed of fifteen letters. My 6, 13, 6, 3, 11, 13, 7, 1, was a Roman Emperor. My 13, 11, 13, 1, was anciently considered goddess of the rainbow.

My 2, 12, 8, 10, 14, 14, was a confederate of Rutuli of Switzerland.

My 9, 4, 2, 15, 10, 1, 6, 7, 11, plus a vowel, is a city in the vicinity of "Bloody Meadows," where the power of the Lancastrians was overthrown in battle. JIMMY.

My whole is a great dish for Dutchmen. Disco, Macomb County, Nov. 1856.

There was one error in the zoological enigma of last month; the last number in the fourth solution should read 13 instead of 15. In the problem there were two errors, which made its solution impossible. We publish it again, corrected.

Problem.

Required the ages of A. and B., if 31 times A's age, plus 5 years is equal to 21 times B's; and ten years ago

5g times A,s age plus 9g years equalled 3g times B's. How long is it since 7 2-7 times A's age plus 5g years equalled 5g times B's ? G. C. Augusta.

Answer to Zoological Enigma.—Gen. Geo. Wash-INGTON.—Answered by "Jimmy," of Disco; Frankie C. McAllister, of Locust Grove; Kate, of Rose Cottage; Alfred Wellington, Hockville.

Answer to Enigmatical Charade.—Love one Anothes.

-Answered by Jimmy, of Disco.

Alfred Wellington has sent an enigma, but forgot

MICHIGAN FARMER.

ROBERT F. JOHNSTONE, EDITOR.

DETROIT, DECEMBER, 1856.

Officers of the State Agricultural Society.

President, JAMES BAYLEY, Troy.

Executive Committee.

Horace Welch, F. W. Backus, A. N. Hart, Edw'd G. Morton, J. B. Crippen, W S H Welton, J S Tibbets, J J Newell, Cha. Dickey, C W Green, Wm Canfield, Archibald Jewell.

POST OFFICE, Ypsilantı,. Detroit, Lapeer, Montoe. Coldwater, Grand Rapids, Piymouth, Adria . Marshali, Farmington, Mt Clemens, Dowagiac,

COUNTY. Wayne, Lapeer, Monroe, Kent, Wayne, Lenawee, Calhoun, Cakla d. Cass.

COUNTY.

All-gan, Barry, Ber ien,

B:anch Calhoun,

Cass, Chippewa, Cluton,

Eaton,

Emmett.

Hills tale.

Huron,

Ingham, Ionia, Jack-on,

I abella.

Ka amazoo Kent, Lape-r, Lenaw e,

Liv ng ton,

Macoub, Monroe, Monte Im,

Midland.

Saginaw,

Sanilac

Or tonagon,

Grand Traverse,

To continue fer 1 year.

E'ected to serve 2 years.

Vice Pres dents.

NAMES, J R Kellogg, John Bowne, T O Woodruff, El jah Leland, Chas T Gorham, Justus tage, San ual Ashman, John Sweezies, Keuten Fitzgerald,

James Seymour, Moulton Craw, H H Sherman, David Cash,

E Feit, Cyrus Lowell, Augustus Bla r, Jefferies, O C. Tyrrell, Truman H Lyon, hine is White, B J Bidwe l, H H Norton, J P King, R. P Stone, G. H. Sherma John L. Moss, Henry Ashman, Charles Baldw n. Abner Sherman, Henry Pennoyer, W L P 1 ittle, John Divine Luke Parsons, JE Kitton, Charles L Miller,

Richard Beach, Philotus P Hayden,

POST OFFICE, Allegan, Barry Centre, Niles, Quincy, Marshall, Dowagia :, Saut Ste Mary Bellevue, Flushing, Grand Traverse,

Jonesville, Ontonagon, Bunker Bill, lon a, Jacks n, Isabella Centre, Kalamazoo, Grani Rapids, Lapeer, Tecumeeh, Howell, Mackinaw. Roseville. Monroe, Saginaw City,

Rochester, Ontons Ontonagon, Grand Haten, Saginaw, Lexington, Corunna, >t. Clair, Colon, Tuscola, Ypsila ti, Piymou h,

the State Society for his county.

Shiaw see, Br. Joseph, Tuscola, Van Baren, Washtenaw, Wayne, The corresponding Secretary of each County Agricultural Society is the corresponding Secretary of

The Present Volume.

With this number, the labors of the Farmer are finished for the year 1856. We look on the volume which we have furnished with some degree of pride and satisfaction. For varied information, useful to the practical farmers of Michigan, and of the North-West, we challenge for it a comparison with any other periodical of the kind east or west, weekly or monthly. Our friends and subscribers can turn over by aiding to extend our circulation in their immediits pages from the first to the last, and they will find ate neighborhood. We have many friends and subthat whether they are the farmers of 1000 acres or scribers in Ohio, Indiana, Illinois, Iowa, Wisconsin, of only 100 acres, the knowledge it imparts is appli- and Canada, but still the main support of the Farmer cable and of like utility in either case. Glance back must come from Michigan.

at the articles relating to oats, wheat, corn, maple sugar, stump machines, the clearing of land, draining, the improvement of marshes, the use of marls, the motion of sap, the raising of stock, the cost of crops, the economy of manures, the descriptions of farms, and of the several sections of the state as yet but little known, and say whether we have or have not furnished information in relation to Michigan farming, which no man who has an acre of land to cultivate would be without for twice the amount of his subscription. It has been, and is our ambition to make the Michigan Farmer a record of practical farming, such as may be useful to the actual tiller of the ground in the present progressive state of agriculture. In order to carry out this design, it becomes the duty of such a journal as ours, to direct attention to the improvements and discoveries which may be made by the application of the sciences to agricul ure. We may not ignore book farming, for it is by successful or unsuccessful experiments, as written down and printed in books or periodicals that most of our farmers are excited to try to improve. We have now before us letters from subscribers, stating that the facts and practice given in the present volume, relative to draining and the improvement of swamps, marshes and swales, have at length aroused the writers "to take hold of the marshy lands on their farms, and that they too, even in their old age, have begun to ditch." In other matters connected with the growing of crops, and the general economy of the farm, we have also gratifying testimonials, that we have sown seed that is promising abundant returns, and of which our readers are to reap the fruit.

Our many correspondents, who have sent us the results of their experience, have also done a good share of the work, for which our readers should be grateful. We hope to have still more of them another year. Every one should do his share. All communications giving experiments, practice, trials of new implements, of new methods of work, whether successful or not, should be communicated freely. They are always welcome. Sometimes they may not be published because the subject of which they treat has already been discussed. But in a new state like Michigan, every one's experience is useful, as serving to guide us in giving answers and advice to many, who are seeking and making "new homes." We therefore say to all, continue to write for your paper.

During the year we have labored faithfully in sickness and in health, and claim that we have done something to develope the fertility of the state; we ask in return that all those who take an interest in agriculture, should encourage us to further efforts We do not say to any

one, you should stop all other papers and take the Farmer, but we do ask, should you not give a hearty support and encouragement to a journal which is devoted particularly to all the important interests of your own locality and state, in preference to sustaining the press and the writers of other communities, who neither know you, nor care whether your state or county is prosperous and advancing or not?

Our Stock Register.

We call the attention of those who are bringing stock into the State, and raising stock in Michigan, to the importance of having a record of the pediigree of their animals. On the 12th iustant a sale of valuable animals took place at the farm of Messrs. Brooks of Novi, an account of which is given us by our friend Wm. Hunter, Esq., on another page. There were a number of animals which, had it been published they were offered for sale, and had their blood been known, might have brought a much larger sum than that named in the report. Previous to their sale, they were all together, and of course their several families were known to their breeders, as well as the different strains of blood with which they were crossed. Now these animals are all scattered over different farms. There is not one of them that may not raise some stock of merit, and which may not come into market. With a clean pedigree on public record this stock would be worth more per head for breeding purposes, than without by at least ten per cent. Yet the breeders take no pains to sustain ar record that has the widest circulation throughout the State, and is of value to every man who would buy or breed a pure strain of shorthorns or Devons. Again, here is Mr. Sands, of Jonesville, who has recently brought into this State a bull of extraordinary good pedigree, but his record of it was so mixed up that it required nearly three hours of close study to put it in the shape in which it appears in our register. But there it is now on record, and in such form that it can be verified at any time. It shows that Romeo is descended in a direct line from imported full blood stock. on both sides, and that his progenitors are nearly all recorded in the American Herdbook, and that the imported stock to which the American progenitors have been traced, are recorded in the English Herdbook. We ask any stock breeder if Romeo, to-day, is not worth \$100 more than he was before it was known that his pedigree was such as we have made it out. Another point-look at this stock for the future, when it is traced up to No. 22 of the Michigan Stock Register, it is not necessary to go farther, because it will be known throughout the whole State, whenever this number of the Farmer is issued, what sort of bull Romeo is. When a seller says to a buyer, who belongs either to this State or terms by addressing Mr. S. Hulbert, Ogdensburgh, to some other, "the animal I offer you is out of New York.

Beauty, a full blood cow got by Romeo," it is at once known that on the side of the dam, at least, the animal offered is from superior and pure shorthorn ancestry, and its reputation so far is established, because it is known or has been verified up to that point. This is the use of the Stock Register, and the insignificant sum charged for entry is not more than enough to repay us for the time that is spent in keeping it straight. In fact, the amount derived from it is intended for the purchase of a set of the English Herdbooks, of which there is not a copy in Michigan to which our farmers can now refer, or to which all can have ready access to trace out the descent of imported animals. With these views of its utility to the agricultural interests, we ask Michigan breeders to bear in mind that, if they would sustain the reputation of their stock, they must keep their pedigree recorded where it can be referred to at home, and that there is no place so appropriate as the Michigan Stock Register.

ORCHARD FRUITS-NEW APPLES-Scions .- We ask attention to the chapter on fruits, by T. T. Lyon, in the present number. Many of those who are now preparing, or laying out orchards, to be planted the coming spring, will find the observations and advice of Mr. Lyon of great service. His own experience in this State as a fruit grower makes his opinion of much authority.

We also call attention to his description of the Davis apple, a new Michigan variety, which seems to have qualities rendering it an important addition to the list of fruits for orchards in this State.

Mr. Lyon, we believe, can furnish scions of nearly all the varieties of which he speaks in his communications, and as those who procure them of him can depend upon their correctness. Those who seek to improve their orchards or old trees would do well to apply to him.

Hulbert's Plow.

This plow, for the first time, has just been introduced into this State. The Messrs. Goodrich, of Ann Arbor, have begun to manufacture them, and of whom they may be obtained.

From a personal examination of the plow we think it has merits above plows now in use, by the mould board presenting a regular convex surface, an adjustable beam, and a spring draft clevis, thereby equalizing the power and securing against accident by sudden resistance. They may be gauged to plow from four to twelve inches deep. From the recommendations we have seen, they appear to have met with general acceptance. Persons desirous of obtaining patterns can do so on very reasonable N.

WRITE FOR YOUR PAPER,-The busy season is over, and long evenings now give our friends time to with the usual custom forward the January number reflect on the improvements and the errors of last of the Michigan Farmer to all our present subscriyear's work, and to make observations thereon which bers, except those ordered discontinued. There are may prove useful to others. We therefore look to in the vicinity of every post-office local agents apthem now for many useful illustrations and descrip-pointed to receive subscriptions, and every postmastions of the modes of practical farming, their man-ter is authorized to forward subscriptions to the agement of different kinds of stock, and all matters Farmer. Single subscribers can mail us per regisconnected with the management of the farm. Many tered letter the usual amount. As we are now openof our subscribers are putting up or are planning ing a new set of books, we would like to have all barns and stables, or perhaps whole ranges of barns, who wish to discontinue or have their post-offices sheds and yards. We should be pleased to hear changed notify us previous to the 1st January. from all such correspondents, and when they furnish us with drawings or plans that contain any thing new, or plans of their farms, if we like them, they shall be used to illustrate our pages, and to exhibit what our Michigan farmers are doing in the improvement of their farms, and their management. It is by serving as a means of inter-communication to our own agriculturists, that the Michigan Farmer seeks to be useful, and to do its whole duty in promoting the growth and the prosperity of the farming interests, and we expect the aid and assistance of every tiller of the soil in Michigan, and we ought to have thom.

In the present number we give the first of a series of articles on the feeding of animals and the economy of the barn-yard. How many are there who ever reflect that if they keep a certain number of animals, they must have so much of a store of feed to use, and that to grow the feed they must appropriate a certain number of acres of their land. Any information which will illustrate the practice, the cost and the economy of feeding, working, or fattening animals in the State ought to be forwarded. We also want whatever information may be thought useful concerning the practice and methods of saving and applying manures.

We perceive that Dr. Dadd, the author of the "Modern Horse Doctor," and the "Cattle Doctor," is preparing to publish a book to be entitled "The Anatomy and Physiology of the Horse." This work promises to be the most useful work yet written for horse breeders. The whole anatomy is to be treated, as well as the physiology of the horse. The work is to be accompanied with superb illustrations either colored or uncolored, the plates to be got up in France. The price of the work uncolored will be \$2 00, and the colored edition will be \$4 00. Those who desire to subscribe for this work may send their names to the editor of the Michigan Farmer, and we will forward them to the publishers, or we will furnish a copy of the uncolored edition to any of our friends who will get us up a club of twenty subscribers to the Farmer for the year 1857.

W. R. S .- Your letter and inquiries as to ashes will receive full attention next number.

To our Subscribers .- We shall, in accordance

The Executive Committe, of the Michigan State Agricultural Society, will hold their annual meeting at Lansing on the second Monday (12th day) of January 1857. Ex-Presidents of the society and delegates from county Agricultural Societies are invited to be present. J. C. HOLMES, Sec'y.

We are not advocates of any excitement, and we have cautioned our readers not to trust or put faith in the exagerated notices of the Dioscorea, or Chinese yam, which have been circulated. But when a real trial of a new plant is brought forward, it should be known. Mr. Wm. Adair, the well known nurseryman, near this city, left with us a few days ago, a Chinese yam, grown by himself, from the little bulbs, a small package of which was sent to him from the patent office two years ago. The yam presented to us was about the size and shape of a medium sized parsnip. It was baked with some potatos, and turned out as white and as palatible as a good potato. Some salt and butter added to it made it good enough for us, and very excellent. Mr. Adair has promised us a short account of his treatment of it, next month, and we may add that, he can supply roots to make cuttings for seed, if any of our readers should like to try it.

A Morgan Horse Book .- C. M. Saxton has just issued an essay on the Morgan and Black Hawk horses, which we shall notice next month,

THE HORTICULTURIST AND THE FARMER.—We will furnish the Horticulturist and the Farmer to any of our subscribers who may wish to take both at the rate of \$2 50 per annum.

THE LAPORTE Co. FAIR .- A correspondent writes to us that the Laporte county fair of this year was very successful. The show of cattle and horses, both in quality and numbers, was superior to that of last year, and evinced that the farmers in the vicinity were paying attention to teeir stock. The Floral Hall division was very handsome, and attracted a large number of visitors. The fruit and flower department, like other exhibitions of this year, was not first rate, but that was the fault of the weather.

County Agricultural Societies.

It is very desirable that the annual returns of the county agricultural societies should be made to the Secretary of the State Agricultural Society, at as early a date as possible. Some of the counties are always prompt in making their returns, while others are as uniformly tardy, if not wholly delinquent.

Fifteen copies of the Transactions of the Agricultural Societies is due to each county agricultural society that makes a report.

It is hoped that for the future the officers of county societies will give this matter their attention, and see that full reports are transmitted to the Secretary of the State Society, with as little delay as possible.

Members of the county agricultural societies feel a just pride in seeing their efforts for progress and beneficial results crowned with success; but, when they turn over the leaves of a volume of Transactions and find no mention whatever of their county, or its agricultural society, they very naturally feel somewhat chagrined.

A few copies of the volume of Transactions for 1855 have been received from the State Printer, and as soon as others are received they will be ready for distribution.

J. C. Holmes,

Sec. Mich. State Agricultural Society.

Detroit, Nov. 21, 18:6.

Sale of Valuable Improved Short Horns.

We ask attention to the following letter from L. G. Morris, Esq., relative to the shorthorn stock of the late Noel J. Becar, of Long Island. The late Mr. Becar joined with Mr. Morris in selecting and purchasing shorthorns in England, and the selections from the various herds were the very choicest and best animals offered. In the lists of sales of Bates of Kirklevington, of the Earl of Ducie, of Knightly of Tanqueray, and others, Mr. Becar's name appears as the purchaser of the highest priced animals, in conjunction with that of Mr. Morris. His herd is very superior, and well worthy of the attention of those about to lay the foundation of a stock of pure blooded shorthorns, and those who would wish full information about it may send their names to us for copies of the catalogue to be furnished previous to the sale, and we will forward them to Mr. Morris.

R. F. Johnstone, Esq., Editor of the Michigan Farmer—Dear Sir: I wish to communicate, through your columns, to the breeders of shorthorns, that I have been authorized, by the Executors of the late Nuel J. Becar, to dispose of his entire herd of far-famed shorthorns. We have also determined not to sell a single animal from that herd until June, 1867, on the day of my annual sale, which generally takes place about the 20th.

Many inquiries have been made, by letter and otherwise, and I take this course to answer previous and future questions.

A very full and explanatory catalogue will be issued in due time, and very generally circulated to all my present correspondents, and as many others as may desire it. L. G. MORRIS.

Mount Fordham, Westchester Co., N. Y., Oct. 31, 1856.

Michigan Stock Register.

Shorthorns.

No. 22.—Romeo—A rich red roan bull—owned by Wm. F. Sands, of Jonesville. Calved July 1852. Raised by Mr. J. J. Sheafe, of New Hamburgh, Dutchess county, New York, and sold to R. S. Allen for J. Bard, from whom he was purchased by the present owner. Sired by Wyandotte, and dam Young Sylph.

Dam, Young Sylph, by Oakland, (762 A.)

grand dam, Sylph 1st, by Lubin, (96 A.) g. g. dam, Nell Gwynne, by Whisker.

g. g. g. dam, Flora, by Patriot.

g. g. g g. dam, Nonpariel, by Young Comet.

g. g. g. g. g. dam, Arabella, imported, by North Star, (460 E.)

Sire, Wyandotte, (1113 A.) out of Creampot 2d, got by Don, (52 A.)

g dam, Creampot 2d, by Guarionez, (68 A.) g. g. dam, Creampot, by Lord Althorp, imported, (658 A.)

g. g. g. dam, Flora Hills, by Young Eclipse, (see Am. Herdbook, p. 163, vol. 1.)

Mr. Sands transmitted to us a very imperfect memorandum of pedigree, but with the aid of the Herdbook, we have traced Romeo out as above, and by the side of the sire his descent is perfect. We may add here that "Lord Althorp" was from a remarkably good milking family. It is stated in a note on page 163 of vol. I of the American Herdbook, that Lady Althorp, the dam of Lord Althorp, gave 30 quarts of milk per day for some months after calving, five quarts of which made 84 ounces of butter. Of the pedigree on the side of the dam, we we cannot find any trace of Nell Gwynne. The bulls Oakland and Lubin are traced back, and are of straight descent, and the others, Young Comet and Patriot, are mentioned in connection with other pedigrees; so in the cow Nonpareil, her calf Flora is true, but when we come to Nell Gwynne we have nothing to testify in favor of Whisker, her sire. That is the only doubtful spot in the pedigree, and it may be good for aught we know. We have taken some pains with this pedigree, because every one that comes to us hereafter will be treated in the same manner. We mean that no pedigree shall get into our register, unless it is examined, and when there are any blemishes we take the liberty of calling attention to them. In the above pedigree, when the figures have A after them it means American Herdbook, and when E is placed after them, the figures refer to the English Herdbook. We think that Romeo presents as fair a record as can generally be found.

ST. CLAIR COUNTY FAIR.—We are pleased to note that the first annual exhibition of the St. Clair Gounty Society was highly encouraging to its future prospects, and the list of premiums awarded is sufficient testimony that St. Clair is advancing and introducing improved stock and implements. S. S. Hart appears as the most successful with shorthorns, while our friend, S. B. Brown, made a good show of Devons. The address was delivered by O. D. Conger, Esq.

The next fair is to be held at Port Huron. The officers chosen for the next year are, President—John E. Kitton, of St. Clair; Vice President—Ralph Wadham, of Kimball; Treasurer—W. M. St. Clair, of St. Clair; Secretary—Edgar White, of Port Huron; Executive Committee—S. B. Brown, of St. Clair; M. S. Gillett, of Port Huron; John Nicol, of St. Clair; Asa Larned, of Port Huron; J. D. Brown, of Cottrellville.

The Home Journal, edited by N. P. Willis & Geo EXPERIMENTAL RESEARCHES ON THE FOOD OF ANIMALS.

By R. D. Thomson; reprinted from the last London edition, and published by C. M. Saxton & Co., New York. P. Morris, has issued its prospectus for the coming year. Mr. Willis promises another series of his very charming and very valuable letters to invalids, and also a series of "Portraits of Living Characters. General Morris will enliven the Journal with his sketches, songs and ballads, and a prose poem is promised from T. B. Aldrich. As a journal of the haut ton, containing literary sketches, communications, criticism, and information of all going on in uppertendom, the Home Journal has no superior.

The Saturday Post which we advertise in the Farmer this month, is one of the best family weekly newspapers. The publishers promise a variety for the next year, from some of the best literary talent in the country. which ought to satisfy all readers. It contains a vast amount of instructive and amusing reading on all subjects, fashions, literature and science.

MONTCALM COUNTY FAIR .- The Montcalm Reflector speaks very encouragingly of the first agricultural fair held in that County, at Greenville. The numbers and quality of the stock exceeded the expectations of the most sanguine. Of course, in counties so recently settled, and on the first trial, there cannot be any very large premiums offered. But we see that the farmers, and those to whom awards were made, with an honorable liberality, returned the premiums to the society for the purpose of giving it aid and comfort for the next exhibi ion. Such a spirit will aid in building up the society, and render it a useful institution.

ENGRAVINGS .- We call attention to the advertisement of Mr. Downer, in this number. Mr. Downer is a very skilful wood engraver. He has executed several very excellent engravings for us, of which the Southdown sheep in our last number is an excellent specimen. He also executes the very delicate engravings required by Dr. Goadby to illu-trate his scientific articles in the Medical Independent.

SALE OF SHORTHORNS .- The Rev. Dr. Breckenridge, of Lexington, Ky., sold his herd of shorthorns last month, and for a bull and six bull calves got \$854 50, and for twenty-seven head of cows, heifers and heifer calves, \$3,546 50.

Samuel Thorne, the great breeder, of Dutchess county, New York, swept the shorthorn premiums at the National Fair at Philadelphia. His bull, Neptune, and his cows, Lady Millicent, Lallah Rookh, Mistress Gwynne, Peerless, Alma, and Azalea, and the new importations, Mrs. Flather and Dianna Gwinne, were all considered first class animals, and so they ought to be, if there is any thing in blood and breeding. We perceive that the Devons also keep up their reputation as a favorite breed, and excite attention. The Herefords were present in greater numbers and of better quality than at any fair heretofore. This is a breed which is working its way forward, and for quality of beef often takes the premiums over all other breeds, including the best bred and handsomest shorthorns.

We call attention to the advertisement of Messrs Hubbard & Davis, offering for sale trees, scions, and plants. These nurserymen have a good stock on hand now. They have been making large additions to their grounds and varieties for the past two years, and their stock is well worth a trial by those who are ready for publication, but it has been crowded out preparing to set out orchards.

This work is based on a series of experiments undertaken at the expense of the British Government, to determine the value of barley and malt in the feeding of animals. This work is not calculated to direct how to feed, but there is no publication more valuable for giving those seeking it information as to the effects of food on animals, and the composition of various kinds, especially with reference to the dairy and the formation of flesh and fat. The tables alone are very valuable.

THE DOG AND GUN. By J. J. Hooper. New York, C. M. Saxton & Co.

This is one of Saxton's Rural Handbooks, and gives some brief but good instructions as to the bandling of guns, and the training and management of sporting dogs, and also many hints in relation to the game birds of the country.

FAMILIAR LETTERS ON CHEMISTRY. By Justus Liebig. New York, C. M. Saxton & Co.

The name of Liebig is so connected with science and agriculture, and his researches are so intimately connected with all that is most important to farmers, that even when he proves himself to be human by being mistaken sometimes, he is listened to with the highest respect. These letters are written to show how necessary a knowledge of chemistry is in every department of business, and in every profession.

THE HORSE'S FOOT, AND HOW TO KEEP IT SOUND. By Wm. Miles. New York, C. M. Saxton & Co.

This is a pamphlet giving a great deal of information about the anatomy and construction of the foot of the horse, a subject upon which there is a vast amount of ignorance, even among the best blacksmiths and farriers. We commend this little cheap teacher to their attention, and also to all who would like to learn why their horses sometimes go lame, though shod in the best manner, as far as the smith knows how.

THE PRINCIPLES OF PRACTICAL AGRICULTURE. By
D. Thaer. Translated by William Shaw and C.
Johnson. New York, C. M. Saxton & Co.

Theer stands at the head of the German School of Practical Agriculture, and his principles are correct and of value. When Theer began to write on agriculture, there were but few works which he could consult. Much of his experience is embodied in his "principles," and, in fact, the whole work is but a detail of his own observations. But then, his observations were those of a man skilled in the best methods of regulating science, and, therefore, his work is the basis of German agriculture at the present time. All the details in this volume are of value, because suggestive of the propriety of exactness. The work is a standard one, and Messrs. Saxton & Co. have published it in a good form.

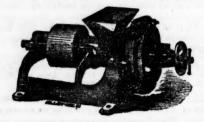
CHINESE SUGAR CANE.-It will be noticed that Mr. Orme, of Atlanta, advertises the seed of the Chinese sugar cane for sale. This plant, so far as is known about it, does not ripen its seed as far north as this State, but grows and ripens sufficiently to enable a good crop of sugar juice to be extracted. and as a plant for green fodder for cattle is reported as unsurpassed. We have an article referring to it until next month.

The Markets and their Prospects.

Since our last issue, the markets have declined so far asbreadstuffs are quoted. The last advices from Liverpool brought advices that the British markets were well stocked, that demand was light, and that prices had declined to the amount of 12 to 15 cents on a barrel of flour, and 4 to 5 cents on a bushel of wheat. Nor was there any prospect of a greater activity. The New York and Boston markets also seem well stocked. The markets here yielded slightly during the month. Oats have advanced, and corn is worth a little more. Farmers are now beginning to bring in their hogs for sale, though not many have been offered yet. Prime hogs are worth \$6,50 to \$7. Beef in the carcase ranges from 41/2 to 6 cents. Mutton in the carcase is freely offered in any quantity at 3 cts. But choice fat wethers are worth 31/2. Butter keeps up and advances, good fresh retailing at 25 cents. The supply of apples is not large. Cranberries sell at \$4, per bushel. Poultry is taken at fair prices as fast as brought to market. Eggs are also wanted, and retail at 18 to 20 cents.

BREADSTUFFS AND GRAIN.	SEEDS, PLASTER, SALT, &c.
Tour. bbl	Clover per bush \$7.50 a 8.50
ornmeal, 100 lbs. 1.25 a 1.37 %	l'imothy 2.75 a 3 25
luckwheat, 150 lbs3.00 a	Red top. 1.75 a 9 00
Thest bush 1.15 a 1 20	Rine grass 3.00 e
lorn bush 0.53 s	Orchard grees 3.00 a
ete bush 0.44 a 0.45	Sandusky placter bbl 1 vs.
larley per 100 the 9 25 a 2874	Grand River 150 a
	N V Planter 1 19 a
many morrow, coo.	Sandneky water lime 1 50 a
eef on foot\$2,50 a 3,50	N V de
eef dressed	1-14 0
heep, oressed per 1b_0,03 a 31/2	SMIT HIRE DOI-, 1,75 &
heep on foot,2,25 a 3,56	40 coarse, 2,20 a
logs per 100	MISCELLANEOUS,
urkeys1,00 a 1,50	Apples per bush, 50 a 62%
hickens, pair37% a 0,50	White fish, half bbl, 4,50 a 3,00
eese	White beans per bush, 2,00 a
ggs per doz 18 a 20	Sheep pelts, 50 a
lutter, per lb fresh 24 a 26	Hay and timothy, ten, 9,00 a10,00
do firkin 17 a 19	Common,
heese per lb 9 a 11	Honey 20 a 25
	Potatoes 62% a

TO FARMERS, MILLERS & LUMBERMEN



FIFTY-SEVEN PREMIUMS

At the World's Fair, London, the American Institute, Michigan State Fair, and other Societies, have

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As the most perfect Grinding Mills ever offered to the public A Either for Farmers' use by Horse Power, or for flouring and regrinding middlugs and other offals in large flouring mills, they excel all other kinds of mills, giving a larger y leid and a better flour, having no oscilating motion, and easily kept in good face; and are the only mill well adapted to the unsteady motion of sawnills, for meal, Graham flour, or feed grinding. They are a great saving in Power and Investment in building mills. The factory prices are \$75, \$100, \$140, \$170, \$200, and \$300, and freight to the place of delivery. For sale by M. J. COOK, near the Post Office, No. 19 Griswold street, opposite M-rehants' Exchange. To be found in operation in this city, at W. W. Davis & Co.'s Conical Mills, also in various parts of the State and country. Descriptive circulars sent, by addressing

M. J. COOK, Ager S. B.—An additional Premium and Diploma were awarded on these Mills at the Michigan State Fair of 1855, and at the New York State Fair of 1856; the highest Premium was awarded on Flour manufactured by these Mills, though amid powerful and exciting competition.

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GERMAN BITTERS. PREBARRD BY

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LIVER COMPLAINT, DYSPEPSIA, JAUNDICE,

Chronic or Nervous Debility, Diseases of the Kidneys, and all diseases arising from a disordered Liver or Stomach. Such

Such

as Const pation, Inward Pites,
Fullness or Blood to the
Head, Acidity of the Stomach,
Nauea, Heartburn, Disgust for Food,
Fullness or weight in the atomach, Sour
Eructations, Sinking or Fluttering at the pit of
the Stomach, Swimming of the Head, Hurried and difficult Breathing, Fluttering at the Heart, Choaking or suffocaing sensations when in a lying posture, Dimness of Vision, Dots
of webs before the Sight, Fever and Dull Pain in the Head,
Deficiency of Perspiration, Yellowness of the Skin, and
Eyes, Pain in the Side, Back, Chest, Limbs, &c.
Sudden Flushes of Heat, Burning in the
Flesh, Constant Imaginings of
Ev.i and great Depression of
Sjirits.

S, irita.

The proprietor is calling S, irits.

The proprietor is calling the attention of the public to this preparation, does so with a feeling of the utmost confidence in its virtues and adaptation to the disease for which it is recommended. It is no new and untried article but one that has stood the test for ten years' trial before the American people, and its reputation and sale is unrivalled by any similar preparations extant. The testimony in its favor given by the most prominent and well known Physicians and individuals in all parts of the country is immense and a careful perusal of the Alimanac, published annually by the proprietor, and to be had gratis of any of his Agents, cannot but satisfy the most akeptical that this remedy is readily deserving the great celebrity it has obtained. Principal Office and Manufactory. No. 86 Afch St., Philadelphia, Pa.

GREAT CURE OF PILES.

CAMDEN, N. J., March 12, 1855.

CAMDEN, N. J., March 13, 1855.

DEAR SIR—It is with much pleasure I take this opportunity of informing you of the great benefit I have derived from the use of a few bottles of "Heofland's German Bitther." For a number of years I have been so rely; and severely afflicted with pain in the stomach, attended by attacks of the Piles, for which I tried a great many remedies, but without affording me any relief. Being advised to use the German Bitters, I did so, using in connection for the Pites, your Spikenard Cistment, and I now inform you that they have entirely cured me and resorted me to health, and I would advise all the afflicted to use your valuable medicines, &c.

Respectfully yours, MARGARET REPSHER, No. 45 Plum Street, Camden, N. J.

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Dec. 1856,—1 year.

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The attention of the public is again asked to this most

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One that truly has the approbation of all men far and near who have used them, in all cases giving full satisfaction, and is beyond doubt the Best Machine known to cut Wood, Staves, Hubs or Shingles, firm and compact, only weighing 1000 lbs. with truck and log carriage 24 feet long, easily transported in a common wagon box, and adapted to any kind of power, fitted for tumbling rod or band; may, or may not be stopped to change the log, which is easily done even by a boy, and with a two-horse power and one hand will saw 20 to 35 cords of wood per day, and is a profitable Machine for thrashers to buy to use with their Power and Team after thrashing season is over, as I never knew one that would not command \$5 per day, giving full satisfaction.

PRECE:

All complete with saw\$60	00	
Two-horse sweep power 50	00	
Two-horse R. R., or endless chain power116	00	
Twenty-four inch buz saw ready for use 38	00	
Machine cross-cut saw drilled and filed 5	75	

I have also for sale the Little Giant Corn and Cob Mill, Grain Drills, Danford's Mowers and Reapers Pitt's Corn and Cob Mills, Horse Powers and Thrashers, &c. &c. Orders thankfully received and Machines forwarded to any part of the country by railroad.

KALAMAZOO, MICH., October 15, 1856.

GEO. N. BOLLES. nov3t

Clarke's Female Pills.

THE GREAT ENGLISH REMEDY.

Prepared from a Prescription of Sir John Clarke, M. D. Physician Extraordinary to the Queen.

THIS invaluable medicine is unfailing in the cure of all those painful and dangerous disorders to which the female constitution is subject. It mode—'es all excess and removes all obstructions and a speedy cure may be relied on.

TO MARRIED LADIES

it is particularly suited It will, in a short time, bring on the mouth-ly period with regularity. Each bottle, Price One Dollar, bears the Government Stamp of Great Britain, to pervent counterfeits.

Caution.

These Fills should not be taken by females that are pregnant, during the first three months, as they are sure to bring on miscarriage; but as every other time and in every other case, they are perfectly safe.

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I. C. BALDWIN Co.,

(Late J. Bryan), Rochester, N. Y.

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Oct. 1st, 1855.

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PURE BRED STOCK FOR SALE.

THOROUGH BRED DURHAM CATTLE, Pure Bred French
Sheep, Pure Bred Spanish Sheep, and Pure Bred Essex Pigs
and Suffolk Pigs. Apply to J. S. GOE,
Tippecance, Fayette Co., Pa., 4½ miles East of Brownsville.
April, 1856

MANUFACTURER and dealer in Ready Made Clothing. His assortment will always be found complete, Also, an assortment of Clotha, Cassimers, Verlings, and Gentlemen's Furnishing Goods Custom Work and Cutting done to order. No. 11, Phoenix Block, Main gtreet, Ann Arbor, Mich.

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BELOW MICHIGAN EXCHANGE, DETROIT. The Subscribers keep constantly on hand a large stock of

ELEGANT FURNITURE. Both Modern and Antique Styles; in Rosewood,

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Those wishing rich and fishionable Furniture, will always find a great variety to selectirom—equal in every respect to anything in the Eastern market. Being in constant receipt of Pattern ces from the

FASHIONABLE MAKERS IN NEW YORK enabled to guarantee the most PERFECT SATISFACTION they are en eir customers.

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They also keep constantly on hand a large and complete assortment of Plain Furniture of Mahogany, Cherry and Walmut. In short, every article in the line of Household Furniture will be found in their Stock, including Chairs of every style and price, from four shillings to sixty dollars each. The subscribers now have on hand, and make to order, best

HAIR MATTRESSE

Their customers can rely upon getting, a genuine article.

CORN-HUSK MATTRESSES AND STRAW PALLIASES constantly on hand. For the trade we keep constantly a large stock of Mahognay and Resewood Veneer, June '56, tf. STEVENS & ZUG.

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Vermontville, April 16, 1856.

C. SMITH. May tf.

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MR. ANDRE LEROY, member of the principal Horticultural M. and Agricultural Societies of Europe and America, and intely promoted by the French Emperor to the rank of Kn ght of the Legion of Honor for the best nursery products exhibited at the World's Fair, held in Paris, begg leave to inform his friends and the public that he has just published his New Catalogue for 1865, being more extensive and complete than that of any similar establishment on the continent. It contains the price, &c., of all the Fruit, On amental and Evergreen Trees, Shrubs, Roses, Ca. ellias, Stocks, Seedlings, &c., &c., with the necessary information for importing the same. His experience in putting up orders for Americs, and the superior quality of his plants have been too well appreciated during a period of ten years to require further comment. The Ca a ogue can be obtained free of charge on ap lication to the undersigned Agent, who will also receive aid forward the orders. Mr A. Leroy is happy to state that his Nurseries were not reached by the inundation which so recently devisitated a portion of the district is which they are situated.

Oct2t

ANDBE LEROY, Angers.

F. A. BRUGULERE, Sole Agent, 137, Pearl Street, New Yors.

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LABORING UNDER AFFECTIONS OF THE THROAT OR LUNGS.

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At No. 459 Main Street, Buffalo. N. Y. where he may be consulted daily, ('abbath excepted) from nine to five, for 1HEOAT AND PULMONARY DISEASES, more particularly CONSUMPTION, ASI H: A AND CHRONIC BRONCHITIES, in the treatment of which a judicious combination of Remedial measu es, the employment of Mechanical and Constitutional Remedies, and of Medicinal and Sth nothropic Inhalations, give him a degree of success which can never attend a merity partial treatment of these Affections. Ur. FITCH may also be consuited for all derangements of the system preceding, or giving rise to Pulmonary Diseases, particularly CATARRH, DYSPENIA, COSTIVE-NSS, AND FE ALE COMPLAINTS. Persons wishing to consuit, but unable to visit Dr. FITCH; can do so by sending him a written statement of their case. A personal examination is however a ways preferable, as important symptoms are sometimes overlooked by the patient; and also as constant practice in consultation enables Dr. FITCH to determine the condition of the Lungs with great accuracy; thus of course enabling him more success. with great accuracy; thus of course enabling him more successfully to modify and adapt treatment to individual cases.

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CALVIN M. FITCH, M. D.,

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PROSPECTUS FOR 1857.

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Dec-1852-2t

